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The
CHEMIST AND DRUGGIST

Established 1859

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Registered as a Newspaper

No. 2963
VOL. CXXV

NOVEMBER 21, 1936

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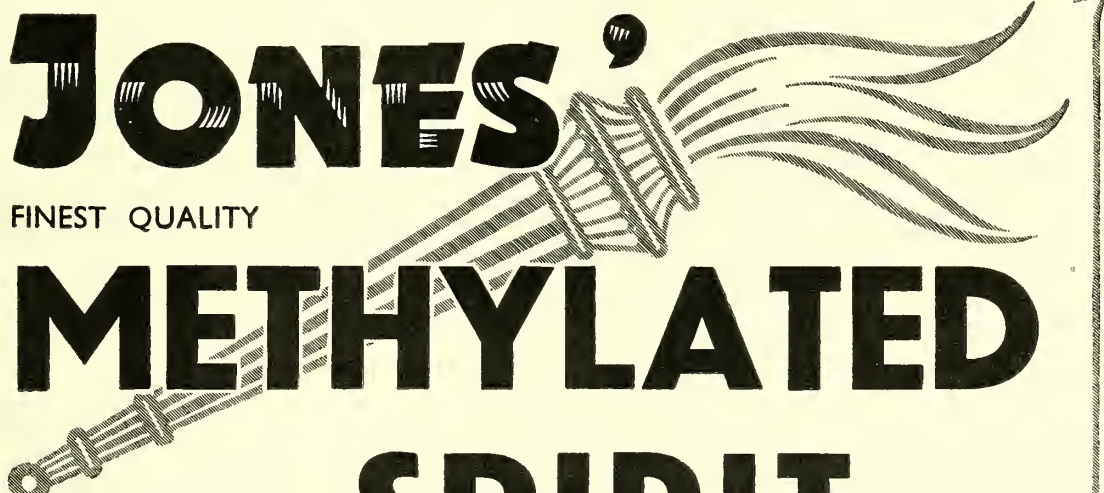
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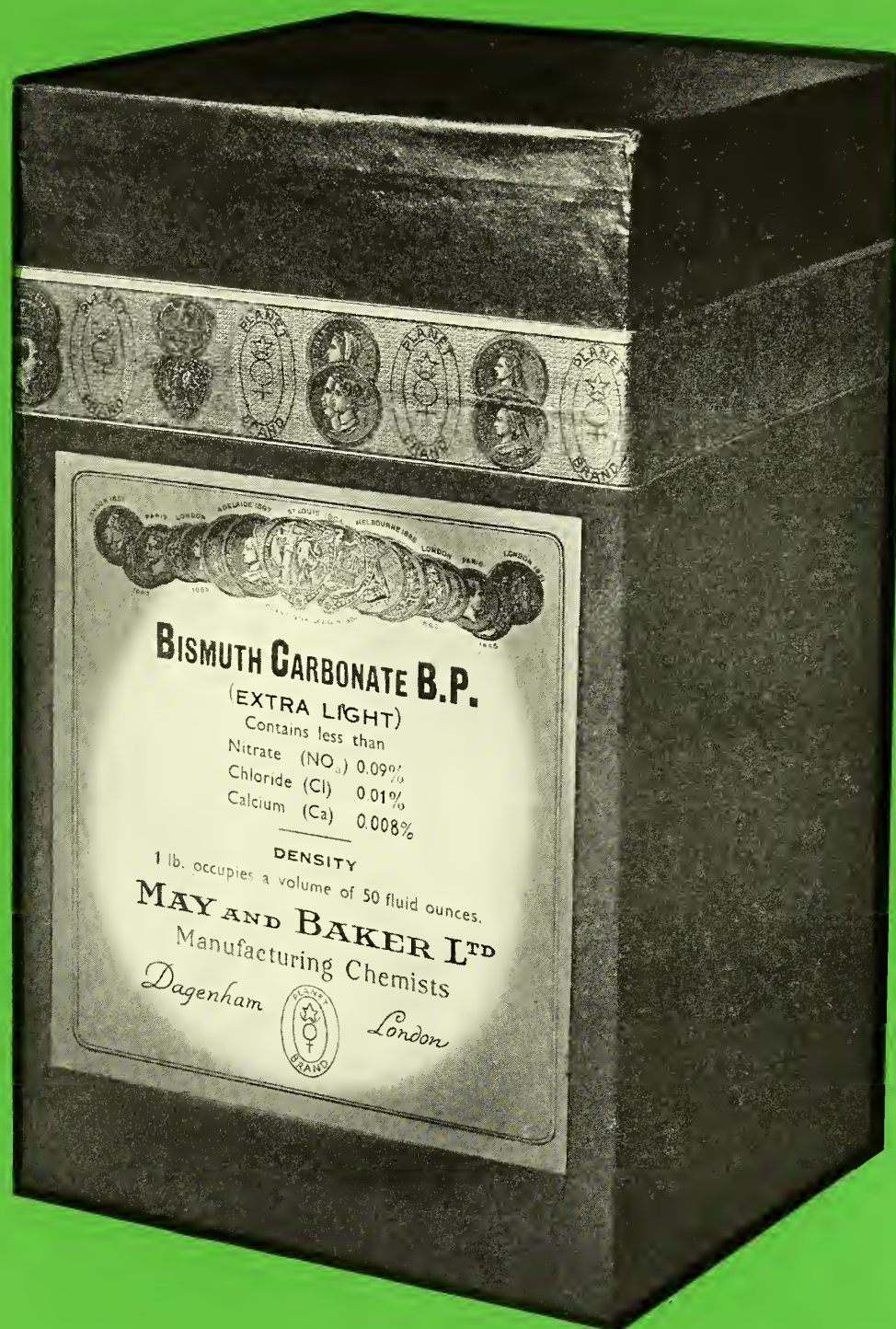
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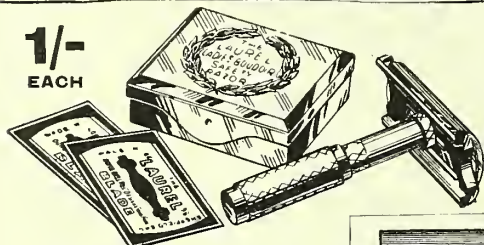
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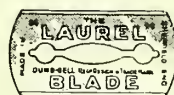
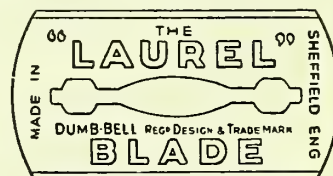
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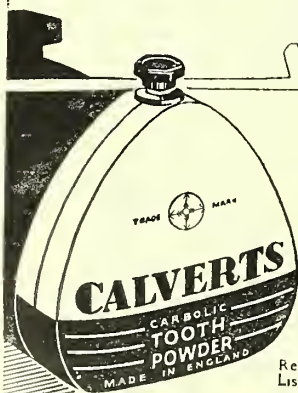
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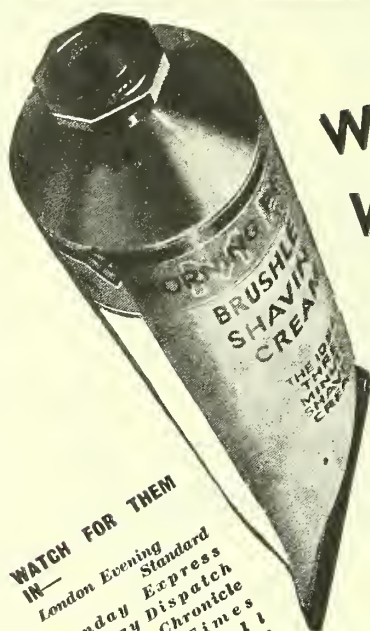
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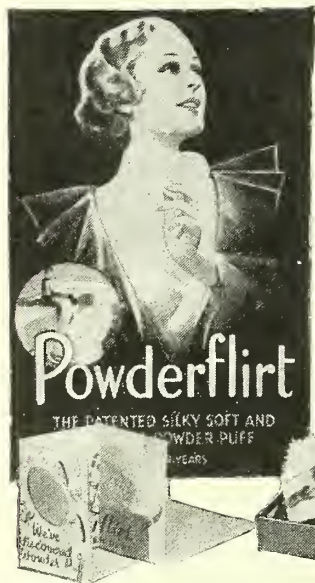
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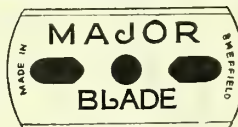
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For over 80 years we have been making bottles of every description to meet the needs of the Trade. We are in a favourable position to produce all types—machine made—at highly competitive prices and of a quality second to none.

We shall welcome your enquiries. *Phone : Trafford Park 0814-5

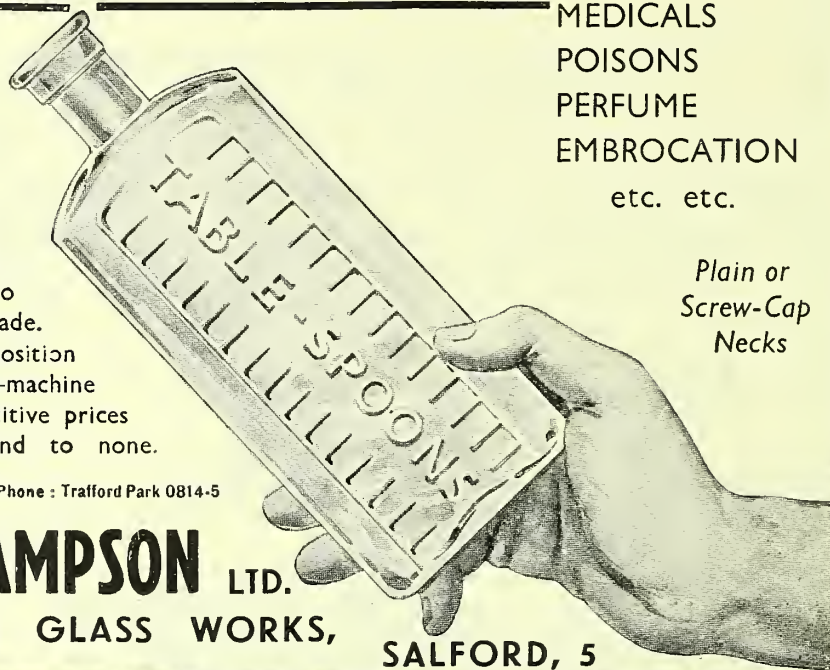
FREDK. HAMPSON LTD.

PERSEVERANCE GLASS WORKS,

SALFORD, 5

MEDICALS
POISONS
PERFUME
EMBROCATION
etc. etc.

Plain or
Screw-Cap
Necks



Winter means chapped hands, rough skin and increased demand for Beetham's Larola. Display and link up with our winter advertising. This special display stand free on application to:

M. BEETHAM & SON, CHELTENHAM



SPHERE POWDER PUFFS AND FACE CLOTHS



Powder Puffs of Silkiedown Velour in lovely pastel shades. In addition to their dainty appearance these lovely puffs make it an easy matter to apply the powder very evenly. Hygienically sealed in "Silvaphane" envelope. Write for samples.

These Sphere "Nu-Knit" Face Cloths are made by an improved process which renders them more than usually soft and absorbent. Each cloth hygienically sealed in "Silvaphane" envelope. Write for samples and details of the unique quick service display carton.

FAIRE BROS & CO. LTD., LEICESTER

ORDER

MADE IN THE HIGH COURT OF JUSTICE
CHANCERY DIVISION
MR. JUSTICE LUXMOORE

TUESDAY the 20th day of OCTOBER 1936.

BETWEEN SCOTT & TURNER LIMITED and EDWIN NEWELL Plaintiffs Defendant

UPON MOTION this day made unto this Court by Counsel for the Plaintiffs And UPON HEARING the Defendant in person And UPON READING the Writ of Summons issued on 13th October 1936

AND the Plaintiffs by their Counsel and the Defendant in person desiring that the hearing of the said Motion should be treated as a Motion for Judgment and consenting to this Judgment and having signed the Registrar's book accordingly

AND the Defendant in person undertaking that he his servants and agents will not sell "Andrews Liver Salt" otherwise than in accordance with the eleven Agreements mentioned in the said Writ and except at the minimum retail prices fixed by the Plaintiffs namely Nine pence per 4 ounce tin and One shilling and four pence per 8 ounce tin

IT IS ORDERED that the following Inquiry be made that is to say

1. An Inquiry what damages the Plaintiffs have sustained by reason of the breach by the Defendant of the said Agreements or any of them

AND IT IS ORDERED that the Defendant do pay to the Plaintiffs their costs of this Action down to and including the date of this Order to be taxed by the Taxing Master

The costs of the said Inquiry are reserved
And the parties are to be at liberty to apply

Andrews Liver Salt is supplied for Retail Sale strictly on the understanding that the following prices shall be maintained.

4 oz. TIN · 9^D

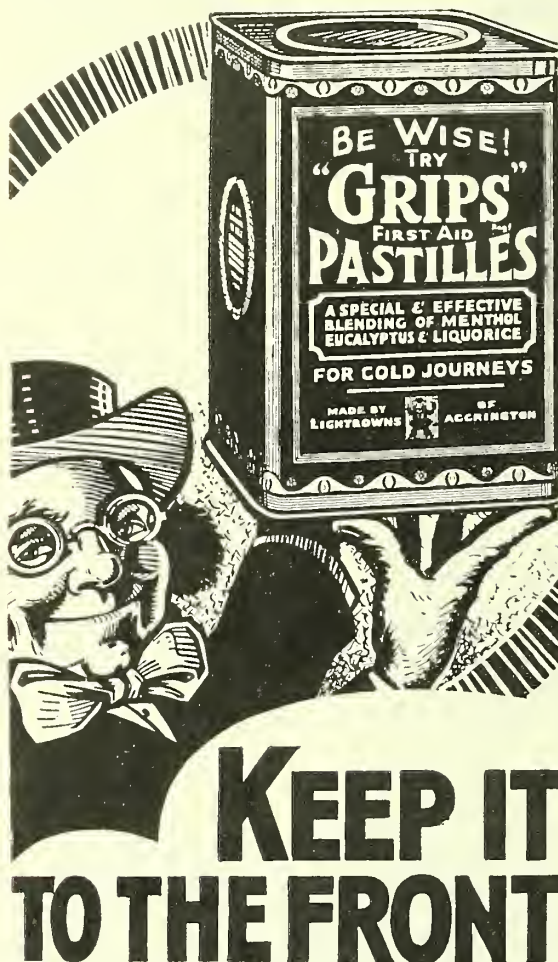
8 oz. TIN · 1/4

WARNING

The Proprietors of Andrews Liver Salt desire to make it known that they are determined to take all possible steps, in the interest of their customers, to prevent price cutting in breach of the agreements relating to minimum retail selling prices which were fixed for the benefit of Wholesale and Retail traders.

Proprietors:

SCOTT & TURNER LTD., Andrews House, Newcastle-on-Tyne, 2.



BE WISE!
TRY
"GRIPS"
FIRST AID
PASTILLES
A SPECIAL & EFFECTIVE
BLENDING OF MENTHOL
EUCALYPTUS & LIQUORICE
FOR COLD JOURNEYS
MADE BY LIGHTBOWNS OF ACCRINGTON

KEEP IT TO THE FRONT

This 4-lb. tin of 'Grips' is a little treasure house for every chemist. Keep one by you and see how quickly its contents disappear. National advertising compels sales.

THOMAS CHRISTY & CO., LTD.

4-12 Old Swan Lane, London, E.C. 4.

Agents to the Wholesale and Retail Chemists' Trade.

'GRIPS'

FIRST AID
PASTILLES

MADE BY LIGHTBOWNS LTD., ACCRINGTON

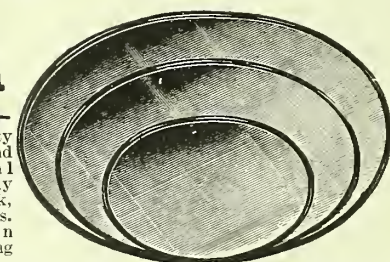
KING'S FOR SHOPFITTINGS

Send for our new Christmas Catalogue of Decorations and Novelties. List No. 1791 issued free of charge.



Ref. No. H 3249 Round Section Metal Display Pedestals, fitted with Rubber Studs at Top and Bottom. Stocked in the following sizes:—

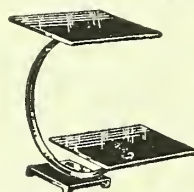
Height	Brown Bronze Finish	Chromium Plate Finish
9-in.	1/3 each	2/6 each
12-in.	1/6 "	3/- "
15-in.	1/9 "	3/9 "
18-in.	2/3 "	4/6 "
21-in.	2/9 "	5/3 "
24-in.	3/3 "	6/- "
30-in.	3/9 "	7/6 "



Ref. No. OK 256 First Quality Clear Glass and Black Opal Glass, Display Ovals, 1/2" thick, polished edges. Stocked in the following sizes:—

Size	Clear Glass	Black Opal Glass
9" x 5"	12/- dozen	17/- dozen
10" x 7"	13/6 "	18/- "
12" x 9"	14/6 "	21/- "
14" x 10"	18/- "	32/- "
16" x 9"	22/6 "	36/- "
18" x 12"	28/- "	51/- "
20" x 15"	45/- "	63/- "
24" x 18"	52/- "	87/- "

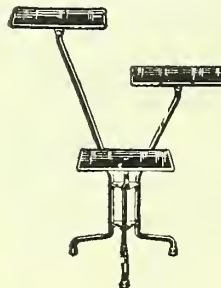
We will be pleased to forward our complete catalogue of Pharmacy Fittings No. 1013. Post Free on Application.



No. H 3278. Square Section Metal Display Stand, fitted with two Black Opal Glass Shelves, 10" x 6". Mounted on a square base. Height overall, 12". Brown Bronze Finish 9/6 each Chromium Plate Finish 12/-.



No. H 3277. Round Section Metal Display Stand, fitted with four Black Opal Glass Shelves, 10" x 6". Mounted on a Double Circle Base. Height overall, 21". Brown Bronze Finish, 13/6 each Chromium Plate Finish, 16/6 each



Ref. No. H 3275. Square Section Metal Display Stand, fitted with three Black Opal Glass Shelves, 7" x 5". Height overall, 19". Brown Bronze Finish 10/6 each Chromium Plate Finish 13/6.



No. H 3472. Square Section Metal Display Stand, fitted with four Black Opal Glass Shelves, 9" x 5". Height overall, 24". Brown Bronze Finish, 22/6 each Chromium Plate Finish, 30/- each

J. C. KING LTD.

42-60 GOSWELL RD., LONDON, E.C.1

PHONES: CLERKENWELL 2316 (Private Branch Exchange)



50% Profit!
Chemists Only!

Introducing

Brustine BRAND

NOSE & THROAT BON-BONS

● WHAT THEY ARE

Brustine Bon-bons are two-fold in purpose and are therefore made in two distinct kinds. The WHITE Bon-bon has a definite action on the membranes of the Nose and the GREEN Bon-bon is for the THROAT. They are entirely different from any other kind of medicated sweet and are recognised everywhere as being unequalled for the Chest, Throat and Husky Voices, etc.

● HOW THEY SELL

Brustine Bon-bons are sold through Chemists only at a fixed retail price of 6d. per qtr. They show a profit of 50% on cost and with the initial order a unique clockwork advertising device is sent free. This and other show material, together with the free samples sent with every order, will quickly attract highly profitable sales and their efficacy will guarantee your repeat business.

● HOW THEY'RE PACKED

Brustine Bon-bons are sold in 28 lb. case units containing 14 lbs. of each kind packed in 7 lb. tins. They are supplied loose but with every case will be sent FREE 112 printed bags (to hold $\frac{1}{4}$ -lb.). 50 samples packed for FREE distribution and with every order for 10 cases ONE CASE WILL BE SUPPLIED FREE IN ADDITION.

FIXED
RETAIL SELLING
PRICE

6^D
PER
QTR.

ORDER AT ONCE DIRECT FROM THE MANUFACTURERS

BRUSTOC LIMITED
MANUFACTURERS OF BRUSTINE SPECIALITIES
JOHN STREET, WARRINGTON, LANCs.

NORTH BRITISH

hot water bottles

"UNIQUE" for STRENGTH

A fabric bottle with the greatest reputation in the world for real wear. It is the most reliable bottle for use in hospitals and for the sick room where bottles are continually in use.

Drab or Red, packed in envelope.

Size	Retail	Trade
6 x 10	3/11	2/7 $\frac{1}{4}$
8 x 10	4/6	3/-
8 x 12	4/11	3/3 $\frac{1}{4}$
10 x 12	5/9	3/10

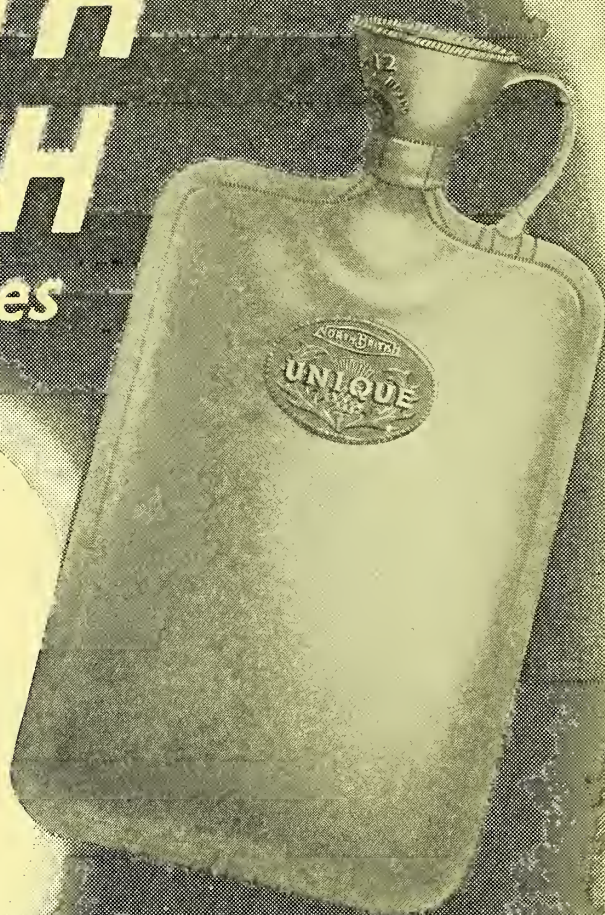
P.A.T.A. PRICE PROTECTED

The NORTH BRITISH RUBBER Co. Ltd.

Castle Mills, Edinburgh 3.

London: 204 Tottenham Court Road, W.1.

Order through your Wholesaler.



Below is our attractive
range of Moulded Bottles



MADE IN EDINBURGH BY THE NORTH BRITISH RUBBER CO LTD

T O W H O M I T M A Y C O N C E R N

BROOKS Rupture Appliances:

The name "BROOKS" is registered as a Trade Mark of the Brooks Appliance Co. Ltd. for use in connection with Rupture Appliances.

WARNING!

Injunctions have been granted by the High Court of Justice restraining Traders from passing off Rupture Appliances or Trusses not the manufacture of the Brooks Appliance Co. Ltd. as if they were the Brooks Appliances manufactured by such Company and from using the term "Brooks pattern" or the word "Brooks" in connection with such appliances.



Brooks Rupture Appliances are obtainable only from the sole suppliers, Brooks Appliance Co. Ltd. 80, Chancery Lane, London, W.C.2, & Hilton Chambers, Hilton Street, Manchester.

To BUYERS of TRUSSES!

The most complete up-to-date facilities for the manufacture of **RUPTURE APPLIANCES** of every known English and American pattern are operating at

**BLACK BULL WORKS,
MARKET ROAD, LONDON, N.7**

Hard Rubber, Celluloid, Leather and Mole
Covered and Elastic Band Trusses, under the

"MASTER"
BRAND
TRADE MARK



are sold in all
Markets of the
World.

"KO-RALLIUM." A new flexite covering for Steel Springs, is immune from Warping, Cracking, Shrinking or Peeling, Non-Inflammable, Impervious to Moisture, Neutral to URIC ACID Secretions.

Supersedes Hard Rubber or Celluloid.

Get to know of this. **It is Something Different!**

Suspensory Bandages and Jock Straps

We offer distinctive lines of outstanding value. Our weaving sheds allow of all intermediate profits being passed to our customers.

Write for sample range at Special Rate, then compare.

F. SCHUTZE & CO., LTD.

Black Bull Works, Market Road, London, N.7

ONE *application of*
MEDILINTEX
THE MODERN POULTICE DRESSING
more than Equals
SIX *ordinary poultices*



Retailed at
6d., 1/- and 1/9
and 1/2 yd. and 1 yd. rolls at
3/6 and 6/6

obviates the risks of sudden changes in temperature unavoidable with the old-fashioned poultice.

ROBINSON & SONS LTD.

Wheat Bridge Mills, Chesterfield, & 168 Old St., London, E.C.1

Medilintex is for this reason very popular with the medical profession. It solves the difficulty of assuring that poulticing instructions are fully carried out in the doctor's absence.

With your ordinary customers also, Medilintex will make an instant appeal. No further need for continually boiling kettles and the painful process of constantly undressing and redressing the wound. One Medilintex poultice retains heat and moisture for 24 hours, and apart from its convenience,

Flexoplast

PRODUCTS

Write today for Illustrated Price List and Samples.

EDWARD TAYLOR LTD.
MONTON, LANCASHIRE

Established 1847

SOL-VO



NEW PRICES

1 Doz. @ 6/- Doz.
3 Doz. @ 5/6 Doz.
6 Doz. @ 5/0 Doz.
1 Gross @ 4/9 Doz.

CARRIAGE PAID
NET

FORD, SHAPLAND & CO. Ltd.

GT. TURNSTILE, HIGH HOLBORN,
LONDON, W.C.1

Telephone: Holborn 4695

"MOSANS"

Non-Greasy, Odourless

QUININE PESSARIES



15/-
per dozen
boxes

ORDER THROUGH ANY WHOLESALE

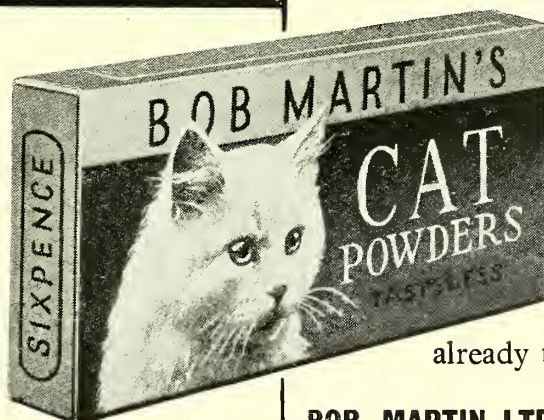
or from

MOSANS LABORATORIES 15 ELMCOURT
ROAD, S.E. 27

Agents for South Africa: THE MONSOL DISTRIBUTING CO.,
16 STANDARD BANK CHAMBERS, JOHANNESBURG.

A NEW 6d packet for BOB MARTIN'S CAT POWDERS

deliveries
begin on
NOVEMBER 23



Bob Martin's Cat Powders have been a success from the day they were first introduced a short time ago. Now comes a new, strikingly effective packet—priced at sixpence and designed to appeal strongly to the women who form the great majority of the cat owners in this country. The new sixpenny size packets are mounted in quantities of one dozen on very attractive display cards that will draw immediate attention. Minimum order one dozen packets at 4/6, (subject to usual bonus). Deliveries of the new style packets begin on November 23rd. We would advise you to place your orders soon—already the demand is very great.

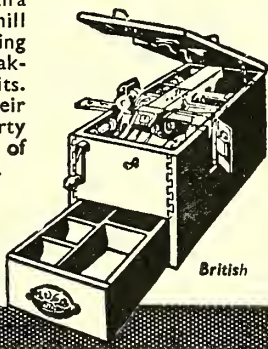
BOB MARTIN LTD SOUTHPORT EST: 1892

PROTECT Your CASH

by checking it systematically with a genuine Gledhill Till. The Gledhill takes a load off your mind by giving you protection, preventing leakage and safeguarding your profits. Over 100,000 traders put their trust in the Gledhill Till. Thirty models to choose from—one of which will suit your business.

Send for Catalogue
and Instalment Plan.

G. H. GLEDHILL & SONS, LTD.
16 Trinity Works, Halifax, Eng.



GLEDHILL'S

BATTLES' VERMIN KILLER

Pharmacy & Poisons
Act, 1933

TO ALL OUR FRIENDS

Gentlemen. As you will appreciate, certain Rules and Regulations in the above Act have necessitated a change in one of the principal ingredients of Battles' Vermin Killer. This has now been done, and after several tests, we are satisfied the article as it will be prepared and marketed in future, will be as efficacious as in the past, and therefore can be recommended by you to your customers with every confidence. Prices per packet will remain the same, and as the preparation now comes under Part II of the Schedule, the somewhat irksome business to purchasers of signing for it will be no longer necessary, we feel that if anything the demand for it should increase. We have circularised our many Wholesale customers in the matter, and of course our Advertisement Programme to the Public will be continued as hitherto. Having been before the Public now for over eighty years with the existing Vermin Killer, we cannot afford to market an inefficient substitute, and we therefore confidently ask for the continuance of your valued custom as in the past years. Thanking you in anticipation, We remain, Yours faithfully.

BATTLES LTD., STONEBOW, LINCOLN

The Christian Herald
6, TUDOR STREET
LONDON, E.C.4.
TEL: CENTRAL 3559

**Your introduction
into 250,000 prosperous homes**

These represent more than a million readers, serious-minded and conscientious, with money to spend on what they want—and when they want it.

Here is a solid profitable market for your goods. Many advertisers have proved this, and their confidence is shown by the fact that the great bulk of them have kept in the *Christian Herald* year in, year out, without a break for over 50 years—keying every advertisement.

Easily the most powerful paper in the religious field, the *Christian Herald* works out at 7/9 per page per 1,000. This will take some beating as a profit producer for advertisers.

★ Some famous national
advertisers who have
used the *Christian Herald*
for over a generation.

CADBURY'S, BOVRIL,
JOHN NOBLE, FOSTER CLARK,
BORWICKS BAKING POWDER,
ROWNTREES, PHOSFERINE,
H. SAMUEL LTD.

Why not consider us at once for your forthcoming advertising?
Send now for specimen copy and advertisement rate card to
Dept. C.D.1.

THE CHRISTIAN HERALD
the paper that is read and handed on
6, TUDOR STREET, LONDON, E.C.4. Telephone CENTRAL 3559

PRECIPITATED CHALK

LIGHTEST—MEDIUM—DENSE.

And All Other Grades To Suit Every Purpose.

Prepared Chalk B.P. and Powdered Talc.

*Phone: Mansion House 7300. Tel. Add.: "Levermore, Phone, London."

A. LEVERMORE & CO. LTD.

110 CANNON STREET, LONDON, E.C.4.

ABC Codes.
6th Edition

GUMS TRAGACANTH AND ACACIA

As Imported or Finely Powdered
ALL GRADES

FREDK. FINK & CO., 10 & 11 Mincing Lane, London, E.C.3

Telephone: Mansion House 5094

TRIBASIC PHOSPHATE of SODA

FREE RUNNING WHITE POWDER

Price and sample on application to:

PERRY & HOPE LIMITED
NITSHILL - - GLASGOW

Are you stocking

YESTAMIN?

Dried Yeast in its most concentrated and most convenient form—powder and tablets. Generous terms and good discounts. Write today to:

The YESTAMIN CO. (The English Grains Co., Ltd.) Shobnall Rd. Burton-on-Trent

WE CAN HELP YOU

in furnishing you with Surgical and other sundries to give a high average profit!

Enquiries will receive our prompt expert attention

REYNOLDS & BRANSON Ltd., 13 Briggate, LEEDS 1

Telegrams: REYNOLDS Leeds

Telephone: Leeds 20046

FINEST PURE LOFOTEN — COD LIVER OIL

BRÖDR AARSÆTHER A/S AALESUND, NORWAY

Guaranteed Content at least 1,000 International Units Vitamin A

100 "D"

Sole Agents for U.K. (excepting Scotland)

FREUDENTHEIL, SMITH & CO.

21 MINCING LANE, LONDON, E.C.3 Established 1826

Tel. Add.: "Freudenruf."

Tel. No.: Mansion House 6600

THOMAS & LINTON, LTD.

4 GRAY'S INN ROAD, LONDON, W.C.1

Telephone: Holborn 5518

Everhot Bags,

Canda Products, Iodine Locketts,
Ephedrol, Litesome Belts

Deliveries from London Stock

ASMOLIN for Asthma

The most profitable Asthma Cure on the market

Excellent display material and sales aids provided

D. MAWDSLEY & CO., 4 & 6 Riga St., Manchester

OPTICAL TUITION

FOR THE

S.M.C., B.O.A. and N.A.O. DIPLOMA Examinations

Particulars:—

C. A. SCURR, F.S.M.C., F.B.O.A., F.N.A.O., F.I.O., F.C.O., M.P.S.

50 HIGH STREET, BARNET, LONDON, N.

Dispensing for Pharmaceutical Students

By J. W. Cooper, Ph.C., and F. J. Dyer, B.Sc., Ph.C.
Fifth Edition revised and re-written by J. W. Cooper.

This book has been brought completely up to date and revised, and is specially written to provide a complete knowledge of all the essential details required by Chemists preparing for the Pharmaceutical Society's Examinations. 455 pp. Fifth Edition. 8/6 net. (By post 9/-)

PITMAN, Parker St., Kingsway, London, W.C.2

Specialists in all forms of

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for insecticides etc.

B U G G É S
INSECTICIDES LTD.
SITTINGBOURNE KENT

Tas/Bu 75

Eau de Cologne . . . Lavender Water

ALL TOILET PREPARATIONS

Low, Son & Haydon, Limited

5 QT. QUEEN ST., LONDON, W.C.2

COURT

TELEPHONE: HOLBORN 4007

EST. 1790

PERFUMERS

CONTRACEPTIVES

We have been supplying Contraceptives of all kinds now for over 30 years and our well-known Safeguard & Empire Brands are still as popular as ever. THESE FACTS SPEAK FOR THEMSELVES and prove the confidence we have secured which is the fundamental principle in selling these goods.

All our Brands are guaranteed to be of the finest manufacture.

Write for complete Price List and Samples.

BURGE, WARREN & RIDGLEY, Ltd.
91-92 Great Saffron Hill, London, E.C.1



The Perfect Powder for cleaning Dental Plates

THOS. CHRISTY & CO. LTD., Old Swan Lane, E.C.4

Will send Samples and Showcards upon request.

Attractive Shops Attract more Business!

*We specialise in modernising
Chemists' Shops, Interiors and
Furnishings and shall be
pleased to co-operate with
Chemists for any kind of
alterations or additions*



PHARMACY FITTERS FOR
OVER A CENTURY

PHILIP JOSEPHS & SONS LTD.

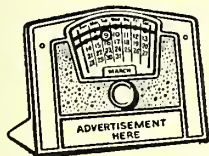
90-92 ST. JOHN STREET, CLERKENWELL, LONDON, E.C.1

Telephone : Clerkenwell 4111/2

ESTABLISHED IN 1826

ADVERTISING GIFTS

(With your Name in Gold)

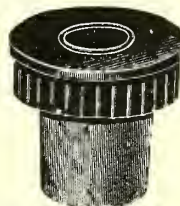


Perpetual Date-Cancelling Calendars, Large-Figure Calendars,
Desk Pads, Blotters, Ash Trays, Telephone Index.

Patentees and Makers :

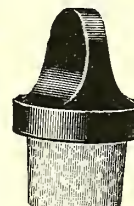
CALENDOX LIMITED
91 PETTY FRANCE, WESTMINSTER

COMPOSITION STOPPERS BAKELITE MOULDINGS COMPACTE COSMETIC & ROUGE BOXES



200 Varieties
Any Colour.

A suitable Composition Stopper will enhance the selling value of your package. Let us fit your Bottles and quote you.



W. J. SHARPLIN, Ltd. Telephone : Mountview 0952
Middle Lane Works, Hornsey, LONDON, N.8

Causyth

IMPORTANT NOTICE!

We commence manufacturing and advertising
in the United Kingdom.

The new therapy based on
EXTENSIVE CLINICAL OBSERVATIONS
over many years

ANTI-PYRETIC — ANTISEPTIC — ANTIRHEUMATIC

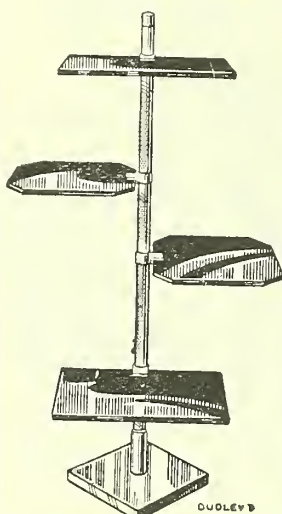
Orders through **WHOLESALE HOUSES**

**TABLETS
SUPPOSITORIES
POWDER**

If not obtainable
apply to:—

CAUSYTH Limited, 142 St. Stephen's House, Victoria Embankment, Westminster, S.W.1

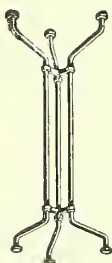
Order Your Xmas Display Fittings Now



No. C.D.F. 5739. The latest Glass Rod Display Stands. The centre stem is a 24" Crystal Glass Rod mounted on heavy Chromium Plated Base—complete with 4 Black Glass Shelves.

2' 7" x 7" } adjustable to
2' 9" x 5" } any position.
18/6 each Carriage Extra

Our Christmas List is now ready. Send for Lists Nos 1695 & 1721. Brimful of interest to you.



No. C.D.F. 5616
Brown Bronze
Tripods

s. d.
9" - 1 6 each
12" - 1 9 "
15" - 2 0 "
18" - 2 3 "
24" - 3 6 "

Chrome finish

s. d.
9" - 2 6 each
12" - 3 0 "
15" - 3 9 "
18" - 4 6 "
24" - 6 0 "



No. C.D.F. 1015
New 1/4" Glass Ovals

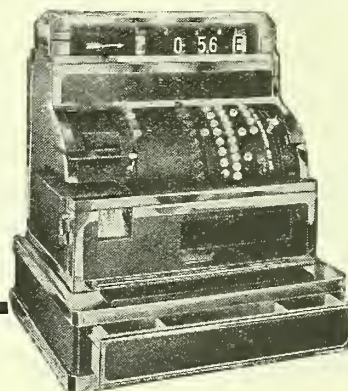
s. d.
11" x 5" - 1 3 each
12" x 9" - 1 6 "
14" x 10" - 1 9 "
18" x 12" - 2 6 "

DUDLEY & COMPANY LIMITED
453 Holloway Road, London, N.7
City Showroom: 65 Fore Street, E.C.

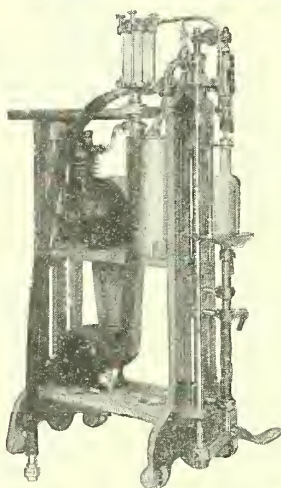
IS IT more profit?

What is the reason for the fact that every month sees more chemists instal modern National Cash Registers? Is it MORE PROFIT . . . or some other great advantage? Unless you investigate you will never know! Act NOW—your profit is at stake. Full details await your request.

THE NATIONAL CASH REGISTER CO. LTD.
206/216 Marylebone Road, London, N.W.1
Telephone: Paddington 7070 (15 lines)



ROBERTS' PATENT "LEO" VACUUM FILLER



for Glass, Stone, and Tin Bottles. Fills all sizes from drachm to quart—long, short or sprinkler neck.

Clean and Rapid
No Over Filling
Broken Bottles Rejected

Easy to Clean
Self Rinsing

WRITE FOR
PARTICULARS

Roberts' Patent Filling Machine

Company Limited

33 Roundcroft Street, Bolton, Lancashire

Makers of every description of Bottle Filling and Shallow Jar and Tin Filling Machine for the Chemists' use

ALL RIGHTS RESERVED

Southalls SANTOWELS

The "ORIGINAL" and most popular. The "CELTEX" soluble, easily disposed of. The "K" made entirely of absorbent cotton wool, with very soft cover. The "COMPRESSED" for travelling. A very popular line.

SOUTHALLS (BIRMINGHAM) LTD.

ESTABLISHED 1793.

ATKINSON & BARKER'S INFANTS' PRESERVATIVE

The Best and Safest Infants' Medicine of 140 years' standing.

Does not contain any Scheduled Poison.

ROBERT BARKER & SON, LTD.,
13 WESLEY ST., C. on M., MANCHESTER.

POTTER'S

Catarrh Pastilles



National advertising
and unvarying quality
ensure a constant sale

P.A.T.A. 1/3, 11/- doz.

Packed in half-dozens

POTTER'S

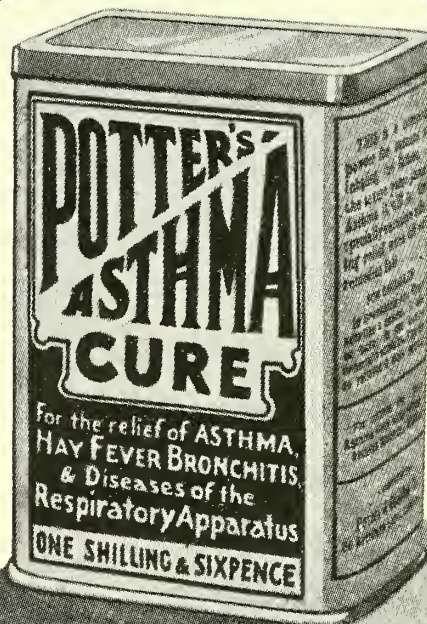
Asthma Cure

Consistently advertised
in all the great national
newspapers thus
ensuring a big demand

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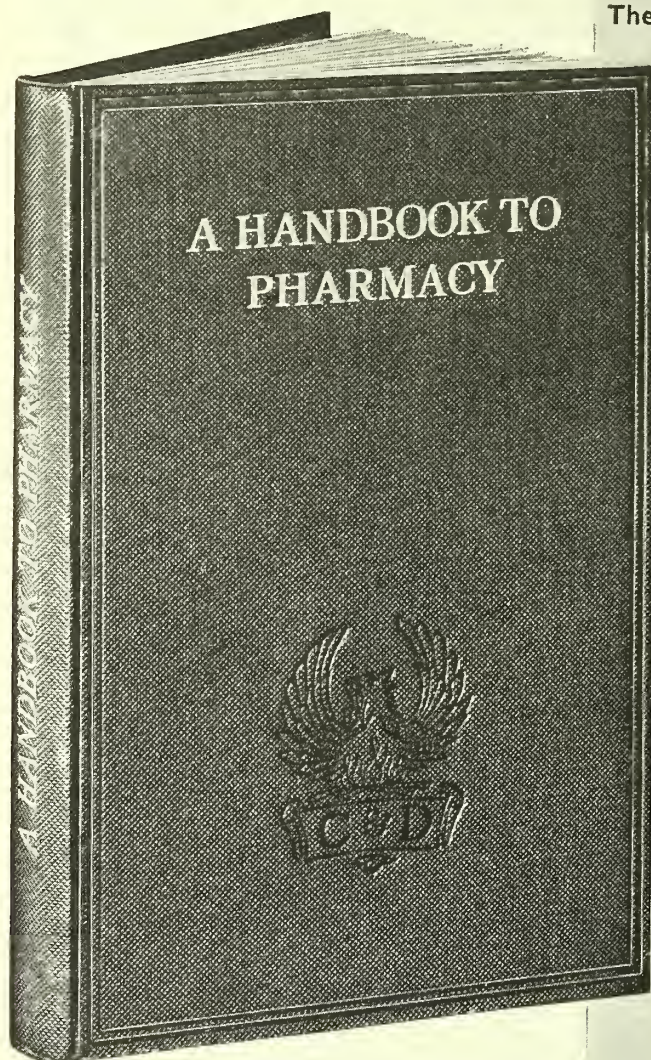
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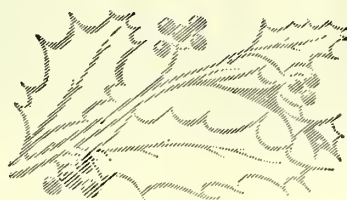
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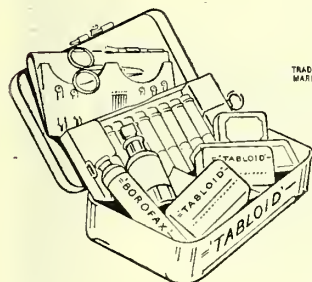
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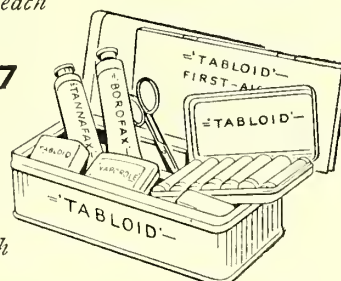
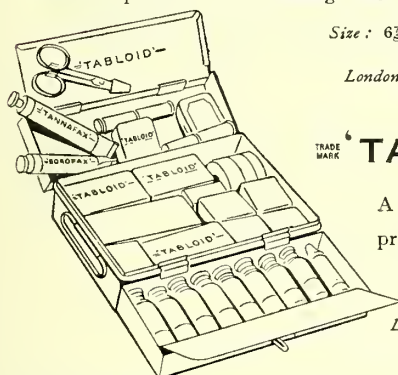
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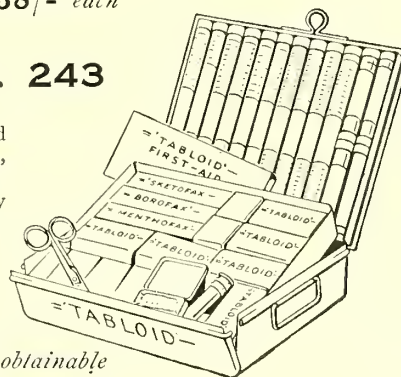
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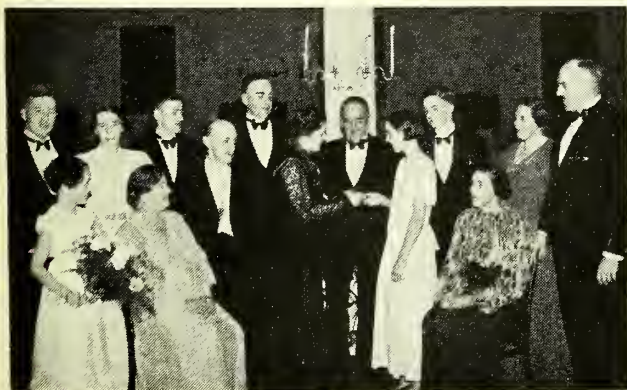
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News of the Week

The Three Thousandth

Robinson & Sons, Ltd., Chesterfield, have signalled the commencement of their three thousandth employee's engagement by presenting her with a gold brooch. The girl, Kathleen



By courtesy of "The Derbyshire Times"

GROUP INCLUDING THE CHAIRMAN AND DIRECTORS OF ROBINSON & SONS, LTD., AND THE MAYOR AND MAYORESS OF CHESTERFIELD

Owens, is the great-granddaughter of one of the first employees of the firm before its incorporation as a limited company. Our

illustration gives an idea of the ceremony, which was attended by a large gathering.

Import Duties Advisory Committee Notice

The Import Duties Advisory Committee give notice that they have under consideration the question of removing PYRETHRUM flowers from the Free List. Any representations which interested parties may desire to make in regard to this matter should be addressed in writing to the Secretary, Import Duties Advisory Committee, Shell-Mex House, Strand, London, W.C.2, not later than December 10, 1936.

Sessional Events

A lecture arranged by the Coventry Branch of the National Pharmaceutical Union was given on November 10 by Dr. E. G. Bryant (head of the Department of Pharmacy, Birmingham Central Technical College) on "Sterilisation in the Pharmacy." Mr. G. R. Williamson presided.

A meeting of the Rhyl and District Branch of the National Pharmaceutical Union was held at Rhyl on November 4. The president of the branch (Mr. C. R. Dixon) presided, and an address on the Chemists' Friends scheme, medicine-stamp duty and the Shops (Sunday Trading Restriction) Act was given by Mr. Bryan (chairman of Executive, N.P.U.).

Mr. Ralph Pickup presided over a large meeting of pharmacists and students at Blackburn, on November 11, held under the auspices of the North-East Lancashire Branch of the Pharmaceutical Society. Mr. J. E. Ellery (Evans Biological Institute) gave an address on the manufacture and standardisation

of certain biological products, including liver extract, gland products, etc. He illustrated his remarks with a cinema film. A useful discussion followed.

Bath

The thirty-first annual supper and social of the Bath and District Branch of the Pharmaceutical Society was held at the Red House, Bath, on November 12. After supper the retiring president, Mr. E. Rogers, said it gave him great pleasure to hand over the presidency to Mr. T. J. Cornish. The new president expressed the hope that he would give as great satisfaction as Mr. Rogers had given during his term of office. A presentation was made to Mr. E. C. Haskins (secretary) on the occasion of his marriage, by Mr. E. Rogers. After supper Mr. W. J. Hallett and Mr. Luther Wilson were associated in a short Dickens character sketch, and the remainder of the evening was spent in dancing.

Birkenhead

"Vaccines and Serums" was the subject of an address to the Birkenhead and Wirral Pharmacists' Association, on November 4, by Dr. Hugh W. Smith (pathologist, Birkenhead General Hospital). The president (Mr. P. Grant) was in the chair. The lecturer gave a general survey of the various vaccines and serums in more common use, their method of preparation and particular uses. At the conclusion one member inquired if the place of preparation of the vaccine had any effect on its efficacy; if vaccine were prepared in, say, Runcorn and given in Birkenhead one would expect reasonable results. Would it have the same efficiency if it were taken on the Continent? The lecturer did not think it would, in view of the time taken in the post. He did not believe the same germ produced the same type of cold in Birkenhead, for example, as in Liverpool or Manchester. Certain manufacturers now stated that their vaccine was prepared for a certain town. In reply to a question on the efficacy of bee venom as a cure for rheumatism, Dr. Smith said he did not believe one type of remedy would cure all cases of rheumatism. He had seen a number of people who had been bee-keepers, and their rheumatism had still progressed.

Brighton

The annual meeting of the Brighton and Hove Association of Pharmacy was held at Booth's Restaurant on November 6, Mr. Donald Foster (who was unanimously re-elected *President*) in the chair. Messrs. F. W. Burgess, Hugh Foster, A. J. Franklin and K. J. Padwick were elected *Vice-Presidents* for the ensuing year. Messrs. Gwatkin and H. B. Mackie were re-elected *Treasurer* and *Librarian* (posts they have held for several years). Mr. Hugh Foster having retired from the post of secretary, in order to devote his energy to National Pharmaceutical Union affairs, Mr. G. H. Phillips was elected in his place. The chairman regretted the resignations of Messrs. Edgar Jones, A. J. Franklin and John Plowright from the committee. A detailed report of the N.P.U. Conference was read by the branch delegate (Mr. Hugh Foster), and a long discussion followed, resulting in more power being given to the committee.

London

With the approval of the British Medical Association, a scheme for the provision of family-doctor service to families with incomes of between £250 and £550 a year is to be inaugurated by the London Public Medical Service, and will come into operation on January 1. Midwifery, operations and specialist services are not to be included at first.

On November 16 the British Records Association held a reception at Merchant Taylors' Hall, where a collection of business archives was on view, lent by the Governor and Company of the Bank of England and other contributors. Among the numerous relics was a sales book from the Plough Court pharmacy of Allen & Hanburys, Ltd., relating to the years 1823-24.

At the Thames Police Court, on November 17, Max Tannenbaum (22), hairdresser, was bound over and placed on probation on a charge of attempting to obtain 6d. by false pretences. Evidence was given to the effect that the accused offered three packages, saying, "This is an advertising scheme of Palmolive. We give you these and you give us sixpence

towards the cost of packing." The three packages were labelled "Palm and Olive Dentifrice," "Palm and Olive Bath Salts" and "Palm and Olive Shampoos." Mr. Reginald Cole, chemist to Colgate-Palmolive-Peet, Ltd., stated that the "bath salts" consisted of sodium chloride. The "dentifrice" was calcium sulphate, and contained no flavouring or antiseptic material. The shampoo contained very little soap and consisted largely of washing soda, while there was no perfume in it.

The fifth Public Health Congress and Exhibition was opened by the Minister of Health (Sir Kingsley Wood) at the Royal Agricultural Hall, Islington, N.1., on November 16. The Congress is organised jointly by county councils, municipal, rural district and national bodies. Stands at the exhibition were mainly occupied by machinery for public cleansing and sewage services, and there was little of trade interest. The Department of Industrial and Scientific Research had an informative exhibit dealing with food marketing, sewage chemistry and factory conditions. Remarkable specimens of handicraft work under systems of occupational therapy were on view at the stands of various mental hospitals. A display by Hanovia, Ltd., showed photographs of a solarium at Battersea, claimed to be the largest in the world. Lectures under the auspices of the various contributing bodies were given at morning and afternoon sessions during the week.

Manchester

"Cine Cameras and Projectors" was the title of a lecture given on November 10 before the local branch of the Photographic Dealers' Association by Mr. J. E. Saunders, F.Z.S. In the course of his address Mr. Saunders said that many people were under the impression that cine photography was an expensive hobby, but he assured them that for a small sum they could commence, and then as they became more confident could, if they felt so inclined, purchase more expensive apparatus. The lecture was illustrated by several reels of pictures. At the conclusion, Mr. Lomax proposed a vote of thanks and also thanked the Manchester Amateur Photographic Association for the use of the club-room. Mr. J. Cleworth, in seconding the vote of thanks, said the members of the Association greatly appreciated the fine pictures shown.

A meeting of the local Branch of the National Pharmaceutical Union was held on November 11, when Mr. G. A. Mallinson (secretary of the N.P.U.) gave an address on "The Chemists' Friends Scheme" and the "Medicine Stamp Duty Inquiry." Mr. W. I. Scholes presided. Dealing first with the medicine-stamp duty inquiry, Mr. Mallinson said there was very little information he could give them. The Chancellor was looking round for sources from which he thought he might get more revenue. Mr. Mallinson explained the present position, from which it was gathered that pharmacists had much to lose. It behoved the retail chemists to stand firm and assert the just rights. The 5s. licence was too cheap. There were 135,000 traders outside pharmacy selling stamped proprietaries, and 47,000 sellers had been added during the last five or six years.

The C.F. scheme, they knew, was becoming a real live organisation, but they—the N.P.U. wanted every pharmacist to give his whole-hearted support. No sacrifice was too great, and it would bring blushes to their cheeks if they knew the sacrifices that trade union leaders had made to accomplish the solidarity of their organisations. Chemists should get together and forget that mythical bonus which so many were afraid to sacrifice. It was not always economical to buy bonus parcels. The chemists who were making money were those who were never overstocked. Although the N.P.U. were far from satisfied, they had done pretty well for the first twelve months. Thousands of lines were marketed by the manufacturers on the C.F. list. By uniting they would be strong enough to fight their battles for justice and equity. Several questions were put to Mr. Mallinson, to all of which he gave suitable replies. Mr. Haines moved the following resolution:—"That this meeting strongly supports the C.F. scheme and the N.P.U. Executive in their endeavour to make it representative of the whole of the craft." This was carried with acclamation.

Reading

A meeting of the Reading and District Branch of the Pharmaceutical Society was held at Willson's Hotel on November 12, Mr. A. E. Breakspear in the chair. The *questionnaire* on federation of branches was considered and replies were approved by the meeting. The following resolution was passed

unanimously for submission to the Liverpool Conference in 1937: "That the branches be grouped into districts, each district to have allotted to it one or more members of Council, of whom one shall act as chairman at the district meetings and serve as a link between the Council and the branches comprised in the district." Dr. H. Vasey (Reading) gave a paper on "Devils, Drugs and Doctors." Dr. Vasey briefly described the progress of medicine from mediæval to modern times. An outline of the modern treatment for tuberculosis, diabetes, pernicious anæmia and general paralysis of the insane followed.

Miscellaneous

YOUNG PERSONS IN SHOPS.—Paragraph 3 of the summary of certain provisions of the Shops Act, 1934, on p. 537 of our issue of November 14 should have read: "No young person may be employed doing overtime for more than twelve hours in any week." [Corrected note.] It may be added that the overtime mentioned in paragraph 2 of the summary must not be worked in more than six weeks (not necessarily consecutive) in any year.

FIRES.—The following outbreaks of fire have been recorded since our last report:—The pharmacy of Mr. B. Ward, M.P.S., Coventry, was the scene of an outbreak of fire on November 12. Mr. Ward subdued the flames with syphons of soda water, and the damage was not of an extensive nature.—An outbreak of fire occurred recently at the Guernsey branch of Boots, Ltd., but it was extinguished by the automatic sprinklers before serious damage was done.

BRITISH INDUSTRIES FAIR, 1937.—The Department of Overseas Trade has been notified by Earl's Court, Ltd., that owing to unforeseen circumstances the new Exhibition buildings now in course of construction at Earl's Court will not be completed in time to permit of them being utilised for certain sections of the British Industries Fair of 1937 to be held on February 15-26 next. The London sections of the Fair will be held at Olympia and the White City as in the case of the 1936 Fair.

Irish Notes

Irish Drug Association

At the second November meeting of the Council of the Irish Drug Association, held in Dublin on November 16, Mr. P. A. Brady (president) was in the chair. The change of hour for meetings of the Committee resulted in a better attendance. Arising out of the minutes, the chairman explained the action taken by the Association to discourage members from giving any support to firms working against the interests of retailers, and added that correspondence from individual members showed the Committee's policy received whole-hearted approval.

Following the reading of letters from manufacturers and wholesalers, a lengthy discussion took place on the distribution of veterinary products. A member of the Committee present stated that his firm were manufacturers and distributors of veterinary lines, and both interests had to be considered. At present, he stated, veterinary manufacturers had power to sell when and where they liked, provided the law was not infringed. His firm would not supply any but chemists, if they could be assured of the same volume of business from retail chemists as that obtainable from outside sources. So long, however, as other veterinary manufacturers pursued their present policy of supplying creameries, grocers, etc., this outside competition should be met. Many members disagreed, and the matter was referred to a subcommittee.

One manufacturer on the Approved List wrote intimating his firm's intention to increase considerably the rates of profit for bonus parcels. The Committee directed that their thanks be conveyed to the firm. A discussion took place on the advisability of circularising the medical profession regarding chemists' hours of business and the prevalent practice of prescribing proprietary preparations. The Committee decided to take no action in the matter. The present problem of the "penny sales" was discussed, and the Committee passed a resolution directing that an appropriately worded *questionnaire* be sent out to all members concerned. Meanwhile the subcommittee were empowered to deal with this matter, subject to the final decision resting with the Committee. Arrangements were made for filling a vacancy on the Committee by co-option. Various prices changes were approved (see also p. 577.)

Brevities

A new shop known as Slattery's, Cash Chemist, has been opened at 162 Parnell Street, Dublin.

An announcement of the launching of a new yeast extract, to be known shortly as G.Y.E., appeared in "The Irish Times" of November 5.

Limerick Corporation, at the request of members of the drug trade in the city, have made an early closing order for chemists' shops at 8 p.m. (Saturdays 9 p.m.).

At the annual meeting of the St. John Ambulance Brigade (Northern Ireland), Mr. Alfred W. Mann, Ph.C. (secretary), submitted the annual report, which recorded an increase in the number of divisions. Mr. Mann has been promoted to the rank of officer in the brigade.

A report on the working of the Alcohol Act, 1934, has been laid on the table of the Dail by the Minister for Industry and Commerce. Arrangements have been entered into with the French firm of Usines de Melle to enable their process of distillation to be used in the five State alcohol distilleries.

With every dividend warrant sent out to their preference shareholders in the Free State, May Roberts (Ireland), Ltd., have enclosed an attractive circular reading: "For all proprietary medicines, toilet requisites, and baby foods, go to your chemist. He is best qualified to look after your interests."

Belfast

Mr. James McClenaghan, Ph.C., gave an address on "Social Credit" at the meeting of the Church of Ireland Young Men's Society in Belfast on October 23.

Mr. William B. Rankin, who has just passed the final solicitor's examination in Belfast, with silver medal, is a son of Mr. W. J. Rankin, Ph.C. (treasurer of the Ulster Chemists' Association), and a grandson of the late Mr. W. J. Rankin, secretary of the Chemists' and Druggists' Society of Ireland.

An exhibition of the photographs received for the competition held by the Belfast and District Branch of the Photographic Dealers' Association for dealers, their assistants and apprentices, was held in the rooms of the Pharmaceutical Society of Northern Ireland, 73 University Street, Belfast, on November 11. The chairman (Mr. John Bell) asked Mr. W. J. Rankin, one of the judges, to give a brief criticism of a few of the best pictures. He remarked that he had been agreeably surprised by the high standard, and gave some helpful hints. Then followed a lecture entitled "The Pleasures of Night Photography," prepared by Mr. J. Ainger Hall and read by Mr. J. Martin Poots. At the conclusion of the lecture the prizes were presented by Mr. H. M. Pollock (McInnes & Walton, Ltd.). Mr. Dundee proposed and Mr. Poots seconded a vote of thanks to the finishers who had contributed the prize money, to the judges and to the secretary, and on the motion of Mr. Cronhelm, seconded by Mr. Simmons, thanks were accorded to Mr. Poots. In conveying the votes of thanks the chairman appealed for more dealers to join the P.D.A. The winners in the various classes were: *Class 1*, Mr. T. H. Giff, Ph.C.; *Class 2*, and best in competition prize, Mr. J. Martin Poots, Ph.C., Newtownards; *Class 3*, Mr. John Doris, Ph.C., Downpatrick (see p. 577).

Dublin

In the Dublin district court James Gallagher, grocer, St. Eithne's Road, Cabra, was fined £2 for the illegal possession of "medicinal salts." It was stated during the hearing of the case that the salts had been bought from a boy.

A party of twenty-eight chemists from Dublin and district recently spent a week-end on retreat at the Jesuit Retreat House, Milltown Park, co. Dublin. The party was organised by Mr. Michael O'Rourke, M.P.S.I., Dun Laoghaire.

Chemists, photographic dealers, their assistants and friends can look forward to an enjoyable social evening at Jury's Hotel, Dublin, on November 25. The social is being run by the Dublin branch of the P.D.A., who are holding their exhibition on that evening at the Hotel. The judges are Mr. T. H. Mason, and Mr. A. V. Henry. During the evening the winning prints, together with a large selection of other entries, will be on view.

Scottish Notes

Brevities

An exhibition of products of Imperial Chemical Industries, Ltd. (Dyestuffs Group), was given in the Recreation Hall of the Scottish Dyers at Grangemouth on November 14.

A correspondent writes:—"Christmas displays are already in evidence, and it is noticeable that the hints given in recent issues of the *C. & D.* are being put to good account. There are indications that Scottish trade is improving."

Fife Education Committee have agreed to the abandonment of the pharmacy course at Kirkcaldy, which, under the present Regulations of the Pharmaceutical Society, no longer qualifies students for presentation for the Preliminary Scientific examination.

Edinburgh

On his retirement from the lectureship in Agricultural Chemistry in the Edinburgh and East of Scotland College of Agriculture, Dr. Alexander Lauder was presented with several gifts on October 30.

Dr. C. A. Browning (Professor of Bacteriology, University of Glasgow) delivered the Cameron prize lecture at Edinburgh University on October 29. Professor Sydney Smith (Dean of the Faculty), who presided, said that notable holders of the prize had been Pasteur, Lister, Behring, Manson and Ehrlich. Dr. Browning, to whom the prize was awarded this year, had spent part of his early scientific career as an official assistant to the late Dr. Ehrlich, with whom he collaborated in some parts of the studies that culminated in the discovery of salvarsan. Dr. Browning, who spoke on "Therapeutical Antiseptics" said that chemotherapy was the treatment of an infection of the tissues with substances of known chemical composition. Lister was its pioneer. Lister's methods had

developed in the direction of prevention, and the prospects of cure that he had held out were not realised. Recently, advances in chemistry had placed at their disposal substances which, while powerful, were non-toxic to the tissues.

Glasgow and West of Scotland

The Andersonian Chemical Society of the Royal Technical College, Glasgow, celebrates its jubilee on November 20. The Society is believed to be the oldest students' chemical society in the British Empire and possibly in the world.

At the recent Glasgow University graduation ceremony the degree of Bachelor of Science in Pharmacy was conferred on Mr. Robert Linklater, and the degree of Bachelor of Science on Mr. George Brownlee and Mr. Arthur Whyte Mollison, son of Mr. W. W. Mollison, chemist and druggist, Glasgow.

On November 10 the Glasgow and South-West Scottish Branch of the Pharmaceutical Society held its annual whist drive, supper and dance. The company included Mr. A. B. Gilmour (chairman) and Mrs. Gilmour; Mr. J. H. Ramsay (vice-chairman); Mr. P. M. Duff (secretary and treasurer) and Mrs. Duff; Miss MacCallum and Mr. A. Aitken (president and secretary of the Glasgow Pharmacy Club), who were the guests of the Branch for the evening; and Mr. G. P. Forrester, London. Mr. W. J. Moffat acted as cardmaster, the whist winners being as follows:—*Ladies*, 1, Miss MacCallum, 2, Miss J. H. Suttie, 3, Mrs. W. Teaz; Consolation, Miss May C. Mackenzie; Travelling Prize, Miss Murdoch; Lady playing as gentleman, Miss B. Nicol. *Gentlemen*, 1, Mr. A. W. Calder, 2, Mr. J. McNicol, 3, Mr. R. Boyle; Consolation, Mr. J. B. Laurenson; Travelling Prize, Mr. R. Taylor. After supper, dancing continued until 1.30 a.m. During an interval the whist prizes were presented by Mrs. A. B. Gilmour. Messrs. Thomas Newton and F. J. Logan acted as joint Masters of Ceremonies.

Topical Reflections

By Xrayser

Although I Hope

that the suggested precautions to be taken against attacks from the air by enemy craft will never need to come into practical effect, you deserve well of pharmacy for dealing with the subject in such a comprehensive way (*C. & D.*, November 14, pp. 553 *et seq.*). When we consider the total unpreparedness of this country against the early gas attacks in the great war—a state of affairs for which we were not to blame—and the way in which those with a pharmaceutical training (notably the late Lieutenant-Colonel E. F. Harrison) came to the rescue, it is only fair and just that pharmacists should be given a definite opportunity of offering their services at the present time; and from the account of the interview your representative had with an official at the Home Office, it would appear that this is likely to be done. I do not imagine that the scheme for ensuring an adequate stock of dressings will be received with too much enthusiasm. I can see all kinds of "snags" in it; but the officials concerned do appear to recognise the pharmacist. As to the question of the supply by the pharmacist of first-aid goods, I believe that he is allowing, and has allowed, a lot of business to pass him here: your illustrated articles should help him to realise what opportunities there are for selling goods of this type.

Oldham

has issued a manifesto (p. 547); after hearing the speeches of those representing that Association at the Bournemouth Conference, I can only add "It is what I expected they would do." They are confining themselves to two matters: (1) The occupation of members of Council; (2) cheap indentured labour. My sympathies generally are with Oldham regarding the former, but I am not a "whole hogger" concerning the exclusion, or rather the suggested drastic restriction, of candidates who may happen not to be retailers, although their business may be one which appeals only to qualified men. Some of our best mem-

bers of Council have, in the past, been those who were not retailers; some of the best work for pharmacy has been done by manufacturers outside the Council—I recall the minority report upon the inquiry which resulted in the Pharmacy and Poisons Act, for instance. Let us all work for the carrying into effect of the Bournemouth resolution by all means, but do not let us assume that the best work for retail pharmacy will necessarily be done by a Council in which there may be one manufacturer or wholesaler and eighteen retailers. I would remind Oldham that pharmacy as a profession might come to a standstill if the manufacturers with research laboratories, for example, ceased to publish the results of much of their work as is done at the scientific meetings of the British Pharmaceutical Conference.

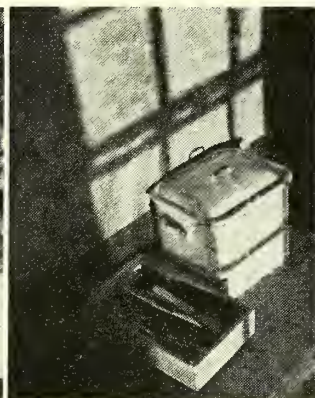
I Have Read

with much interest and a good deal of satisfaction your report of the conference of the Photographic Dealers' Association (p. 543), and I cannot help contrasting this meeting with similar pharmaceutical gatherings. It seems to me that the branch delegates who attended this conference knew what they wanted and went "all out" to get it. That they were not always successful is no evidence that their claims were not just. Many of the delegates are chemists, and I suggest that if they as a body would show the same initiative in matters pharmaceutical as many do in matters photographic, a more hopeful look-out would soon be apparent in pharmacy. It should be noted that the majority of the propositions put forward were practical, they directly affected the "bread and butter" side of the selling of photographic goods. Again I contrast this with the almost total lack of any effort in pharmacy at the present time to get any improvement in the present method, or perhaps lack of method, in pricing scripts. There is nothing more urgent and important in retail pharmacy than the close attention of all chemists to their methods of estimating the value of their dispensing work.



IRISH DRUG ASSOCIATION—Officers and Committee for 1936-1937. *Sitting (left to right)*: Messrs. T. J. Dwyer, John Smith, T. C. Scott, P. A. Brady (*President*), Ronald B. Brown (*Vice-President*), Dr. J. A. Mitchell, J. Duggan: *Standing (left to right)*: Messrs. Brendan Smith, J. J. Roche, J. K. Whelehan, Lyall Smith, G. A. McLean Lee, M. O. Rourke, R. A. Willoughby, F. J. Robinson, E. MacMahon, R. D. Kidney (*Secretary*).

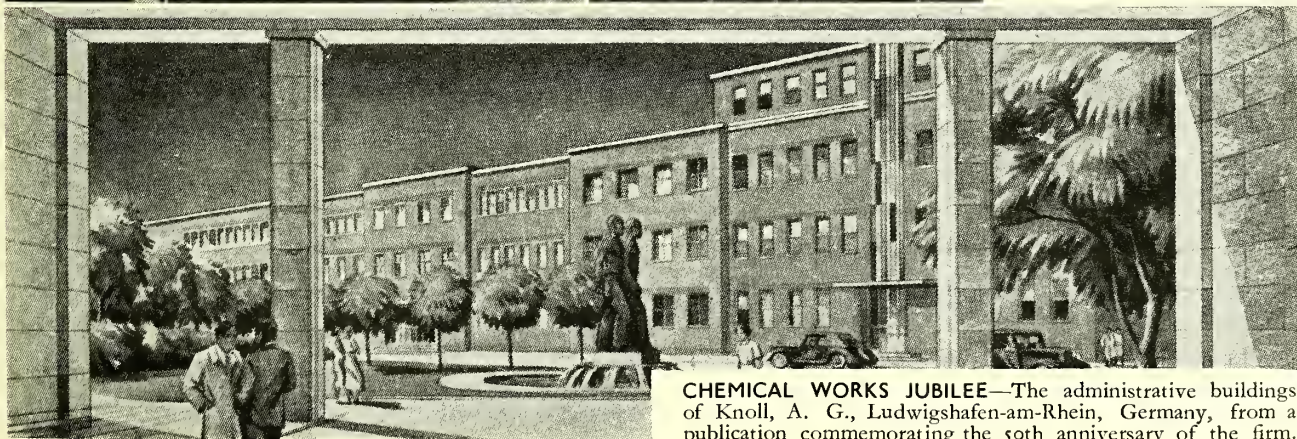
News in Pictures



PRIZEWINNING PHOTOGRAPHS in the domestic, life study and landscape classes of the competition organised by the Belfast and District Branch of the Photographic Dealers' Association for dealers' assistants and apprentices.



PUBLIC HEALTH EXHIBITION—(*Left of page*) Demonstration of a sun-ray treatment apparatus (Report, page 574).



CHEMICAL WORKS JUBILEE—The administrative buildings of Knoll, A. G., Ludwigshafen-am-Rhein, Germany, from a publication commemorating the 50th anniversary of the firm.

Legal Reports

Passing-Off Action.—Before the Vice-Chancellor, at a Liverpool sitting of the Lancashire Chancery Court on November 9, Joseph Crosfield & Sons, Ltd., Warrington, were plaintiffs in a passing-off action. The defendant was Joseph H. Crossfield, Manchester. Mr. Eric Griffith, for the plaintiffs, said that the Deputy of the Chancellor in Manchester had granted an interim injunction restraining the defendant from selling soap, soap powders, and washing preparations under the name of Crosfield. The defendant had now consented to the injunction being made perpetual, and agreed to pay the plaintiffs' costs. The Vice-Chancellor directed that there should be an order.

Disputed Order.—In Bow County Court, on November 17, Moseley & Co., sponge merchants, Lincoln Street, E.3, sued J. Sullivan, transport contractors, Great Queen Street, W.C.2, to recover the sum of £2 12s. 6d. for sponges supplied. The defence was that the goods had not been ordered. Mr. Benton appeared for the plaintiffs and Mr. Duthie for the defendant. Mr. Moseley, giving evidence, said that they had been dealing with the defendants for seven years, during which time they had never had any trouble with the account. In May he called on the defendants and he was told they did not want the sponges. The defendant, in evidence, said he did not order the sponges, and when the plaintiff spoke about them he said they were at the place as they arrived, unopened, and he could have them back. Mr. Moseley then said that as they had not been returned in seven days they should expect him to pay for them as accepted goods. The registrar said he did not think the plaintiffs could make out a sale, and judgment would have to be for the defendants, with costs.

Pharmacy and Poisons Act, 1933.—At Liverpool Police Court, on November 11, William Norman Allison, Longmoor Lane, was summoned for describing his premises as a pharmacy, thereby suggesting that someone was employed in the business possessed of qualifications with respect to selling, dispensing or compounding drugs or poisons other than the qualifications which he or they, in fact, possessed. Mr. D. H. Nield, for the Pharmaceutical Society, said the defendant was not registered under Section 13 of the Pharmacy Act of 1868. Evidence was given by Miss Billington, an inspector, who said she purchased a bottle of castor oil which bore a label with the words "Fazakerley Pharmacy." The defendant said that when he supplied the bottle of castor oil he crossed out the words "Fazakerley Pharmacy." The bottle was produced, and when it was shown that the words had not been deleted, the defendant explained he could only surmise that two labels were stuck together and the uppermost one got rubbed off and was lost. He was discharged under the Probation of Offenders Act on payment of £2 2s. costs.

At Liverpool Police Court, on November 11, G. R. Tharratt, Ltd., chemists, Fenwick Street, were summoned for having sold codeine, in Famel Brand Syrup, without the supervision of a registered pharmacist, contrary to Section 18 (1) (a) (iii) of the Pharmacy and Poisons Act, 1933. Evidence of purchase was given. The magistrate asked what would happen if, when a registered pharmacist was away at lunch, a person came in for a poison. Mr. D. H. Nield replied that poisons could only be handed over the counter in the presence of a registered pharmacist. Mr. J. N. Wilson, who defended, entered a plea of "Guilty." The defendants were fined £10 10s.

When Norman Pharmacies, Ltd., were summoned at Liverpool Police Court, on November 11, for having sold at their premises in Netherfield Road colchicine, contained in Eade's Brand Pills, one witness gave evidence to the effect that the summons had been served at an address other than the registered office. The magistrate pointed out that he could not accept that as service of the summons. Mr. Norman, one of the directors of the company, appeared in court and was told by the magistrate that the defendants could only put in an appearance through a solicitor. It was intimated that arrangements would be made for serving the summons again.

At Acton, Middlesex, recently, Edmund R. Woodhead, Turnham Green Terrace, was summoned, at the instance of the Pharmaceutical Society, for selling or causing to be sold, on

September 17, a poison, codeine, such poison being contained in a preparation in a container not labelled with the name and address of the seller and address of the premises in which it was sold; selling or causing to be sold by retail a poison upon premises not duly registered under the Pharmacy and Poisons Act; not being an authorised seller of poisons; selling or causing to be sold a poison, the sale not being effected by or under the supervision of a registered pharmacist. Mr. A. C. Castle appeared for the Society. The defendant admitted the offences. Mr. J. C. Coombs produced the analyst's certificate proving the presence of poison in the preparation. The defendant explained that he was not aware the syrup contained a poison. He was ordered to pay £2 on each summons and £2 2s. costs.

At Portsmouth Police Court, on November 17, Mrs. Rose M. E. Evans, 25 Russell Street, Southsea, was summoned by the Pharmaceutical Society for selling morphine, contained in Collis Browne's chlorodyne, the sale not being effected by or under the supervision of a registered pharmacist; for selling the chlorodyne in a bottle not labelled in the prescribed manner with the name and address of the seller; for selling the chlorodyne on premises not duly registered; and that not being an authorised seller of poisons she unlawfully sold or caused to be sold a poison contained in Part I of the Poisons List. Mr. J. H. C. Goldie, prosecuting, stated that the defendant was not a qualified chemist, although her husband was. Mr. Evans had premises at 65 Russell Street, but he was not in the business on the day that the inspector called, because he had broken down in health and had gone to Torquay. The defendant pleaded "Guilty," and on her behalf Mr. G. H. King pointed out that the four summonses all related to one bottle. Mr. Evans had been a member of the Pharmaceutical Society for many years. His wife having some money lying idle, he decided four months ago to start another shop at 25 Russell Street, and these premises were opened as a drug store. Unfortunately he broke down in health, and had not completed his arrangements when the offence occurred. The magistrates decided to convict on the summons for causing the poison to be sold, and fined the defendant £2 2s., with £2 2s. costs. The other three informations dismissed on payment of 4s. costs in each case.

At Sale Police Court, on November 16, John Kilvington Warren, Cross Street, pleaded "Guilty" to a charge of using in connexion with his business the title, emblem or description "Pharmacy," reasonably calculated to suggest that he or someone employed in the business possessed a qualification with respect to the selling, dispensing, or compounding of drugs or poisons other than the qualification which he or they in fact possessed. Mr. D. H. Nield, prosecuting on behalf of the Pharmaceutical Society of Great Britain, told the magistrates that in this case an inspector of the Society who bought a bottle of castor oil and some liniment from the shop found the name "Kilvington's Pharmacy" over the shop and similar wording on the label. He was instructed to press the case. Miss J. Billington confirmed in evidence the solicitor's statement, and the defendant, in reply to the magistrates' clerk, did not dispute that she purchased the articles. Contending that it was permissible to use existing labels to the end of the year, Warren pointed out that he had been using the title legally since 1917. The presiding magistrate said that the public had every right to be protected. In fining the defendant £1, with £3 3s. costs, the Bench were taking a lenient view, but they hoped he would take this case as a warning.

At Witham, on November 17, Colchester and East Essex Co-operative Society, Victoria Place, Colchester, was summoned for selling poisons on unlisted premises at Tiptree. Mr. G. J. Pope, secretary to the Society, pleaded "Guilty." Mr. A. Horsnell, chief inspector to Essex County Council under the Food and Drugs (Adulteration) Act, explained that a search of one of the Society's vans at Tiptree revealed the presence of bottles labelled "Poison." Five were purchased by an officer of the County Council. Mr. Pope said that instructions were issued to the hardware manager of each branch directing him that poisons were not to be sold from delivery vans. The Society had no intention of disregarding the Act. The chairman said these offences were very serious, and the Society would be fined £5 on each summons with £2 2s. costs.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

BRADLEY EMBLETON (CHEMISTS), LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists and druggists formerly carried on under the name of Exors. of Bradley Embleton at 53 Roman Road, Bow, E.3.

R. H. STEPHENS, LTD. (P.C.).—Registered in Dublin. Capital £500. Objects: To carry on the business of wholesale and retail dealers in toilet requisites, chemists, druggists, etc. The first directors are not named.

FOUNTAIN PRODUCTS, LTD. (P.C.).—Capital £2,500. Objects: To carry on the business of manufacturers of and dealers in chemicals, drugs, medicines, toilet preparations, perfumes, etc. The first directors are not named. Solicitors: Bennett Thompson & Co., 32 Walbrook, E.C.4.

SAVO PRODUCTS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers, importers and exporters of fireproofing solutions and fire-resistant preparations, analytical chemists, etc. Geo. R. Thompson, Falinge Lawn, Rochdale, director. R.O.: Livsey Street, Rochdale.

BRITISH ETHICAL PROPRIETARIES, LTD. (P.C.).—Capital £100. Objects: To enter into agreements (1) with James Devane and (2) with Seamus B. Morgan and Michael R. Brady, trading as Antigen Laboratories, to carry on the business of the said James Devane, and that of manufacturers of and dealers in medicines and medical preparations, chemists, druggists, etc. The permanent directors are: James Devane, 90 St. Stephen's Green, Dublin, apothecary; Seamus B. Morgan, 55 Canfield Gardens, N.W.6, company director.

ANTI-BI-SAN, LTD. (P.C.).—Capital £55,000. Objects: To adopt an agreement with Southern Chemical Supplies, Ltd., for the acquisition of certain assets of that company, and to carry on business as manufacturers of and dealers in chemicals, gases, drugs, medicines, plaster of Paris, gypsum, etc. The first directors (to number not less than 2 nor more than 7) are to be appointed by the subscribers. W. A. Phillips & Partners or the holders of ordinary shares Nos. 1-50,000 have the right to appoint 3 directors and Southern Chemical Supplies or the holders of ordinary shares Nos. 50,001-75,000 have the right to appoint 2 directors. Solicitors: Clifford-Turner & Co., 11 Old Jewry, E.C.2.

Mr. S. CHARLES WELCH, SENR., requests us to notify his disassociation with Welch & Horner, Ltd., 9-10 Jewry Street, London, E.C.3.

OLD KENT PHARMACY, LTD.—At a meeting held in London on September 17 it was resolved that this company be wound up voluntarily. Mr. F. Clemons, 52 Bedford Row, London, W.C.1, was appointed liquidator.

IRISH PHARMACEUTICALS, LTD.—The annual general meeting of shareholders was held in Dublin. The directors reported a 20 per cent. increase in trading during the year ended June 30, 1936. A dividend of 5 per cent. was declared.

MEDICINAL INDUSTRIES, LTD.—A report of this company was published in the *C. & D.*, October 24 (p. 458). We are now advised that the directors are Mr. T. A. Macauley, Mr. W. A. Phillips and Mr. H. A. E. Roberts. The company will function as a "finance house" for other concerns in the production and marketing of certain proprietary pharmaceutical products. The first of these is Anti-Bi-San, Ltd., particulars of which are published this week under "New Companies" on this page.

BRITISH INDUSTRIAL PLASTICS, LTD. (formerly British Cyanides Co., Ltd.).—A preliminary statement has already been published. The directors' report, which has now been issued, states that profits have not shown as great expansion during the period as in recent years owing to competition. Steps have been taken to meet the situation and the outlook has improved. A consolidated balance sheet included within the accounts shows assets of a floating character amounting to £194,795, compared with current liabilities of £49,620. Aggregate profits of the company and all its subsidiaries for the year ended September 30 amounted to £45,457.

PHOSFERINE PRODUCTS, LTD.—Report for year to June 30 last states trading resulted in profit of £5,426 (£3,245). After adding dividends on investments, profit on realisation of investments and transfer fees, and deducting directors' fees, there remains £5,550, which, together with amount brought forward, £378, makes £5,928. Directors have decided out of this sum to write off a further £1,000 from Phosferine Products Rights and to transfer £1,000 to general reserve. During year under review an opportunity arose to dispose of rights which the company possessed in marketing other products in connexion with name of "Phosferine." Sum received of £1,000 for surrender of these rights has been deducted from Phosferine Products Rights, which now appear in balance sheet at £2,000. Board recommend dividend of 20 per cent. (8 per cent.), payable on November 21; forward, £1,928.

NATIONAL DRUG INDUSTRIES, LTD.—The following statement has been extracted from a circular to creditors dated November 13, 1936, issued by the "Unofficial Committee of Principal Creditors":—"The balance sheet as at December 31, 1935, referred to in our letter to you of January 24 last, was duly completed. The directors submitted to us certain proposals for the settlement of the debenture holders' and the creditors' claims, but as the greater portion of the period covered by these accounts, viz., April 1 to December 31, 1935, was under the administration of the executive directors whose services had been dispensed with and the opening and closing stocks on the trading account had been differently valued, these accounts were not considered sufficiently representative of the present position of the company's trading to serve as a basis for their proposals, and it was decided to defer further discussion until a trading account for the six months ending June 30, 1936, with a valuation of the stock at that date upon the same basis as that taken at December 31, 1935, could be completed. The Receiver agreed to the stocktaking and the balance sheet and accounts for the six months to June 30, 1936, have been considered by the committee. These accounts show that although unproductive business has been eliminated under the present management, a satisfactory turnover has been maintained, whilst expenses have been reduced to the extent of approximately £6,000 less than those for the same half year in 1935. The Committee are quite satisfied that any settlement of the creditors' claims can only be effected by the maintenance of the business of the company as a "going concern" and that a liquidation, by destroying the value of the goodwill, would ruin any prospect of settlement with creditors other than the debenture holders. The Committee have therefore decided in the interest of the creditors to approach the bank to discuss the matter with them, as it is impossible for the creditors to consider any proposals until the debenture holders have been satisfied. No hostile action has been pressed against the company and the committee strongly recommend that time be given to enable the business to be carried on and thus preserve the only means upon which any terms of settlement can be effectively based."

Voluntary Liquidation

H. M. Wood, Ltd., Oxford Chambers, 9 Oxford Street, Manchester, late Butt Lane, Stoke-on-Trent, chemists, etc. At the statutory meeting of creditors held recently it was reported that the ranking liabilities were £646 19s. 7d., all due to the trade. The assets were £461 13s. 3d., but they were subject to certain preferential claims, and there was a debenture for £450. The debenture holder had appointed a receiver, although he was willing to rank as an unsecured creditor. The company was registered in November 1935 with a nominal capital of £600, of which £225 had been issued and fully paid. The company acquired an existing business, the purchase price being £625, which was satisfied by the issue to the vendor of a debenture, and the balance was payable in cash. The foundation balance sheet showed that the assets acquired by the company amounted to £832, with liabilities of £207. On August 20 last the business was sold. It was decided that the voluntary liquidation of the company should be confirmed, with Mr. G. R. Brookes as liquidator.

Chemists' Friends Scheme Meetings

Wolverhampton

The Wolverhampton branch of the National Pharmaceutical Union met on November 4 to receive a report from the chairman (Mr. H. L. Warner) on the recent Delegates' Conference in London. A general discussion took place, and it was decided to continue to support the C.F. scheme and to ask the support of members who were unable to attend the meeting.

Middlesbrough

A meeting of the Middlesbrough and District Pharmacists' Association was held on November 10, Mr. S. A. Mitchell presiding. The purpose of the meeting was to receive a report of the N.P.U. Conference from the local secretary, Mr. D'Arcy Bray, who had attended as delegate. Mr. Bray dealt with every resolution which had been placed before the Conference, and the reception which they had received. He mentioned that at the Conference enthusiasm for the Chemists' Friends scheme seemed in evidence, and that the Wembley Association quoted statistics and figures in support of their contention that the scheme was definitely advancing the economic security of the retail chemist. Regarding the resolution put forward by this Association advocating the appointing of a "public relations officer" as a propagandist for the scheme, it was regarded as satisfactory that the Executive was to consider and investigate the possibilities of this resolution. Something must be done, it was felt, to counteract the propaganda of anti-chemists' friends' representatives. The delegate said that during the discussion it was mentioned that 2,000 wholesalers handled what may be termed "chemist goods."

A resolution was adopted that, as this is an alarming aspect, the N.P.U. should be asked to furnish the members with the names of these wholesalers, as it was felt that such a large number of wholesalers constitutes a grave danger even to the P.A.T.A. and the retail chemist. It was suggested that the trade could have a register of wholesalers who are prepared to confine their business to registered chemists. The determination of the N.P.U. Executive to defend the present concessions to qualified retailers with regard to proprietary medicines was appreciated, and it was hoped that with this, and the Society's evidence, distinct headway could be made. Staff buying and retailing on the part of a large local works was discussed, and it was decided again to communicate with this organisation. On the proposal of the chairman, seconded by Mr. R. MacDonald Murray, Mr. Bray was thanked for his lucid account of the N.P.U. Conference business.

Cambridge

A special meeting of chemists of Cambridge and district was held at the Lion Hotel, Cambridge, on November 12 to receive the report of the delegate to the London Conference of October 14.

THE CHAIRMAN (Mr. John Evans, member of the N.P.U. Executive) opened the meeting by welcoming Wembley visitors and reading letters of apology for absence.

Mr. JOHN B. SIMMONS gave his report on the C.F. Conference, at which he was a delegate. He said that the discussion of the scheme at the Conference excited great interest, and its continuance with greater enthusiasm and energy was the unanimous vote of those present. Many delegates reported that the scheme was definitely profitable, and that the encouragement accruing to chemists' own proprietaries was beneficial from the point of view of both profit and prestige. Chemists, especially those in isolated areas, obtained the impression that the movement was not progressing, as all they heard was derogatory comment from persons representing hostile interests; these reports must be challenged. Chemists were reminded that their obligations were extremely simple and their loyalty would not harm them financially:—(1) Chemists can buy on the best terms they can make, but must refuse window and counter shows and personal sales help on behalf of non-C.F. goods. (2) They should give enthusiastic support to C.F. firms and chemists' own pharmaceuticals. (3) In response to circulars from non-C.F. firms, they should drop a card telling them that no support could be given until the manufacturers joined the scheme. Accountants' figures have

proved in all accounts investigated that the scheme was actually beneficial; no chemist who had tested the scheme had been the loser. The sale of pharmaceutical products outside qualified channels was increasing alarmingly, and unless stopped would become a serious menace to pharmacy. The Chemists' Friends scheme was the effectual means of checking this leakage, and would eventually save thousands of pounds to chemists in the same way as the P.A.T.A. scheme has protected chemists' profits.

Mr. A. E. W. HAWKES (president of the Wembley and District Branch) said that as a working chemist he was so convinced of the rightness of the scheme that even if the C.F. were given up he would still continue with the principles of the scheme because it was a paying proposition. The C.F. was helping chemists to regain their precious heritage, and they should be increasing their own goodwill instead of merely furthering the goodwill of the patent-medicine manufacturer who did not care who sold his goods. He could prove that his returns had increased 15 per cent. since adopting the C.F. policy.

Mr. RATCLIFFE (secretary, Wembley and District Branch) followed by giving experiences of the Wembley chemists in the practical working of the scheme. First, as a hard business proposition the outcome had exceeded expectations and the result had been financial gain. Secondly, the C.F. scheme was valuable in inspiring chemists to regain their professional status by paying proper attention to their own pharmaceuticals for which they received their academical course and qualifications, and making them craft-conscious. He reminded his audience that the fact that patent medicines were first sold in chemists' shops gave them a prestige which they could not possibly achieve otherwise. Chartered accountants' figures proved that the actual loss from refusing window-show bonus was insignificant; this apparent loss could be readily made up by pushing own specialties and C.F. goods. In the C.F. scheme chemists had a really sound policy and a cause that was right and just; by making a success of the scheme, other important improvements in pharmacy would follow. Mr. Ratcliffe paid a tribute to the great fight Mr. Mallinson had put up on behalf of pharmacy.

Mr. PECK said he had at first been dubious about accepting the scheme, as he saw several danger points; he felt, however, that chemists had suffered from an inferiority complex in the past and he saw in the C.F. scheme a means of raising the status of the chemist and of showing his superiority over other traders.

Among others joining in the discussion were MESSRS. PALMER, BORDER, BARNARD, COLLIS and ORANGE.

THE CHAIRMAN then put the following resolution to the meeting:—"That this mass meeting of chemists in Cambridge will continue to give whole-hearted active support to the Chemists' Friends scheme and urge their colleagues in other areas to support the National Executive in its campaign to secure for qualified chemists their legitimate right in the sale of medicinal articles."

Mr. MORGAN (Bedford) suggested a modification as an amendment, which, however, was not accepted.

Mr. B. SIDNEY CAMPKIN proposed a resolution thanking the Wembley representatives for their inspiring address. As men of honour chemists should support their leaders. He deprecated the few who held back, and urged them not to raise bogies but to do their share to ensure the success of the scheme.

The resolution was seconded by Mr. HUBERT STEARN (Royston).

The resolution was carried with great enthusiasm by an overwhelming majority, and the meeting terminated with thanks from MESSRS. HAWKES and RATCLIFFE for their reception.

ANTERIOR PITUITARY HORMONES.—"Owing to the number of hormones secreted by the anterior lobe of the pituitary gland it will be clearer to tabulate the known ones. . . : 1, gonadotropic hormone; 2, growth hormone; 3, thyrotropic hormone; 4, adrenotropic hormone; 5, lactogenic hormone or prolactin; 6, parathyrotropic hormone and pancreatic hormone; 7, diabetogenic hormone and ketogenic hormone."—Professor E. C. Dodds, in "The British Medical Journal."

Pharmaceutical Society of Ireland

Council Meeting

THE November meeting of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on November 10, Mr. J. A. O'Rourke (president) in the chair. Other members of the Council present were Messrs. F. J. Fitzpatrick, P. C. Cahill, J. F. Costello, C. Cremen, D. W. P. Boyd, J. T. Dwyer, P. Brooke Kelly, J. Gleeson, M. J. Kieran, Dr. J. A. Mitchell, Messrs. M. J. Parkes, J. Duggan, J. V. McKeever, Sir Thomas Robinson, Miss F. M. Flood and Mr. J. K. Whelehan. Apologies for absence were received from Mr. D. Warwick and Mr. P. J. Fielding.

CHANGES IN REGULATIONS

Arising out of the reading of the minutes of the last meeting Mr. PARKES asked if it was legal and in order to change a regulation without notice of motion having been given.

THE PRESIDENT said the matter came before the Council from one of the Committees.

THE REGISTRAR said there was no such rule as Mr. Parkes suggested. Notice of motion had to be given a stipulated number of days before a Council meeting. The matter Mr. Parkes referred to had already appeared on the agenda and was referred to the Committee by the Council. On the report of the Committee it was adopted at the last meeting.

SIR THOMAS ROBINSON said it might be possible to alter regulations without notice of motion by including the matter in a Committee report on the agenda.

MR. FITZPATRICK said this was not possible. During his term as president this point was raised, and he would not tolerate any regulation being passed or altered without notice of motion. The matter arose from a report of the examiners which came before the full Council, and was referred to the House Committee after a very full discussion.

SIR THOMAS ROBINSON suggested that where a Committee report recommended a change in the regulations it should be mentioned on the agenda.

MR. PARKES: That's my point. It was not on the agenda.

THE REGISTRAR said in future where a change in regulations is suggested by a Committee he would note it on the agenda.

MR. FITZPATRICK: It would be better if the change was sponsored as a notice of motion by the president or some other member of the Council.

THE REGISTRAR thought it might be better if the Council made a definite ruling on the matter that no change could be made in the regulations except by notice of motion.

The matter was left in the hands of the president and the registrar to see that due notice was given of any change in the regulations.

REGISTRATION ITEMS

Mrs. E. Coen (*née* McInerney) wrote submitting marriage certificate and requesting change of name in the Register. The application was granted.

The following changes of address were notified:—Mr. J. Chute, M.P.S.I., Henry Street, Kenmare, to 31 The Mall, Tralee, co. Kerry; Mr. P. Slattery, L.P.S.I., from St. Joseph's, Griffith Avenue, Malahide Road, to 162 Parnell Street, Dublin; Mr. A. J. Walmsley, L.P.S.I., from Vergemount Hall, Clonske, co. Dublin, to 17 Westbourne Place, Cobh, co. Cork; Mr. T. W. Wright, R.D., from Hillcrest, Howth Road, Raheny, to 65 St. Lawrence Road, Clontarf, Dublin.

On the proposition of the president, seconded by Mr. Fitzpatrick, the name of John Joseph Sheridan, Ballyfarnon, co. Roscommon, was restored to the Register of Qualified Assistants (No. 48).

The following, who submitted Matriculation certificates, were granted Preliminary registration:—Misses A. C. Flannery, J. Murphy, M. E. O'Doherty; Messrs. H. W. Ferguson, A. H. French, D. M. Mulvey, W. D. C. Rorke, R. T. Phelan.

REPORTS FROM COMMITTEES

The Benevolent Fund Committee reported receipt of donations, including a cheque for £3 from the Limerick Chemists' Association.

In connexion with the Assistants' examination the House Committee recommended that the registration fee be deposited

with the registrar by each candidate before he can present himself for examination.

THE REGISTRAR said although letter after letter had been sent out, almost half of the assistants who passed in the July examination had not yet paid their fees. The recommendation was adopted.

The House Committee further recommended that there should be a formal opening of the School on the Council-meeting day in December.

MR. PARKES thought January would be a better month for such a function, as most of them would be busy in December.

SIR THOMAS ROBINSON: This is a very good time to have a function on behalf of the Society. You have a very fine place now.

MR. FITZPATRICK said they had already had an excellent report and pictures of their premises in THE CHEMIST AND DRUGGIST.

The following were appointed a special committee to go into the matter:—Messrs. P. C. Cahill, C. Cremen, Dr. J. A. Mitchell and Mr. D. W. P. Boyd, with the president, treasurer and vice-president as *ex-officio* members of this committee.

A copy of a proposed booklet on the poisons laws and D.D.A. Regulations for the use of the students was submitted to the Council. The Council approved of the booklet, and agreed that arrangements should be made to have the booklets printed for sale to students at 1s. each.

WARBLE FLY ORDER

The Law Committee drew the attention of the Council to a recent prosecution against a chemist for selling cattle wash (warble fly) powder not contained in a sealed package. The summons was brought under the Warble Fly Treatment of Cattle Order, 1936.

THE REGISTRAR said it was a serious thing that regulations of this kind affecting chemists could be passed without the Society being notified in any way. If the Society was consulted or notified chemists could be informed of such orders or regulations through the pharmaceutical Press. The chemist in question was unaware of this order until he was summoned by the Donegal County Council.

After discussion, the Council directed the registrar to communicate with the Secretary of the Department of Agriculture on the matter.

REPRESENTATION IN THE SENATE

THE REGISTRAR drew the attention of the Council to the decision of the Government to create a new Senate based on the minority report of the Senate Commission. According to this report, the learned professions and the universities would be given representation. National teachers were to be given four seats, secondary teachers one seat, the bar and the Incorporated Law Society were to have two each, and three representatives were to be chosen from the medical profession, but there was no mention of pharmacy. They should at least get one seat.

THE PRESIDENT said the proposed Senate would be away from party politics, and would be based on the idea of occupational groups. They should send a memorandum to President De Valera setting out the reasons why pharmacy was entitled to representation. They had definite duties and were part of the health services in the nation. They had no representatives in the Dail, as the medical profession did not speak for them.

MR. BROOKE KELLY: We should have the same as the medical profession.

MR. FITZPATRICK: It would be very useful if pharmacy had a representative in the Dail or Senate.

It was decided to leave the matter in the hands of the president and the registrar to draw up a statement for submission to the President of the Executive Council, asking at the same time that a deputation be received.

REPORTS FROM EXAMINERS

The examiners for the Licence examination reported that eighteen candidates presented themselves, of which number two passed.

The examiners to the Assistants' examination reported that forty-five candidates presented themselves and twenty-four passed.

Referring to the Licence examination marks, THE REGISTRAR commented that invariably where they had such small results it was found that the candidates were not students of the Society's Schools.

DEATH

The Registrar reported the death of W. J. H. Madden, Ph.C.

PROPOSED CHANGES IN CHEMISTRY COURSE

The Schools Committee, reporting regarding the proposed changes in the chemistry course, stated that difficulties had arisen over the fees, hours, professors' fees, and the date on which the regulations should take effect. They referred the matter back to the Council. They further referred the question of a refresher course for chemists to the Council.

MR. PARKES said it would be impossible for students to attend five nights a week.

THE REGISTRAR said the case made by Mr. Brooke Kelly for this course was unanswerable, but to carry it into effect they would have to raise the fees. There was also the question of the Council's recognition of other schools, and he saw no chance of having that rescinded until they got legislation to make new regulations.

MR. BROOKE KELLY suggested that the difficulty of students having to attend on five nights might be got over if students took out their theoretical course after passing their Preliminary. Another alternative was to extend the course to six months, the students attending on three nights in the first three months and two nights in the second three months.

MR. PARKES said they would not get apprentices at all if they had to spend a whole year after their Preliminary at chemistry. It would mean a five-year apprenticeship.

SIR THOMAS ROBINSON inquired the reason for these proposed changes.

MR. BROOKE KELLY: The new Pharmacopœia makes these changes necessary. These things have to be taught. This question has come up time after time since May 1934. It arose out of a letter from Professor Norminton.

THE PRESIDENT suggested adjourning consideration of the matter to the December or January meeting.

MR. KIERNAN pointed out that even if they accepted this course they would still have to accept the certificate of students who did chemistry outside the Society's Schools.

MR. BROOKE KELLY: That could be altered.

THE PRESIDENT: One thing I am opposed to is the centralisation of lectures. I think it should be possible to take them out in two or three centres. I favour recognition of lectures at the other university centres—Cork and Galway.

MR. BROOKE KELLY: The universities do not let any of their classes to be taken in the technical schools. At present our students are not doing the course we want in chemistry.

MR. KIERNAN said no student would do 130 hours at chemistry in their Schools when he could do a shorter term in the technical schools.

MR. BROOKE KELLY: I think the Council should take some definite step—for or against—in this matter.

SIR THOMAS ROBINSON said it was evident that the Committee could not reach a decision, and he moved that no action be taken for twelve months on the matter, the Schools to go on as at present.

THE PRESIDENT suggested deferring the matter for six months.

On a show of hands Sir Thomas Robinson's motion (which was seconded by MR. KIERNAN) was carried.

Speaking on the question of a refresher course MR. BROOKE KELLY said the new Pharmacopœia made this necessary. Refresher courses would be for the older members and post-graduate courses for the younger members. These would be in pharmacy and chemistry. This type, of course, would be useful for chemists engaging in manufacturing or doing research work. The older pharmacists had no facilities to learn anything beyond what they learned thirty or forty years ago.

On the President's suggestion it was decided to ascertain the views of licentiates on this matter.

CHEMISTRY EXAMINER ELECTED

The Council then proceeded to elect a chemistry examiner for the Licence examination for the year ending November 1,

1937. Professor O'Farrelly was declared elected by the overwhelming vote of the Council.

MR. FITZPATRICK: Gentlemen, now that you have unanimously selected Professor O'Farrelly I would like to recall my association with him. During his previous term of five years as examiner he was beloved by the students and carried out his duties with exemplary care. As most of you are aware, he was able to secure for pharmaceutical chemists doing medicine, who had taken the old Preliminary, exemption from the Matriculation examination of the National University, and exemption from the Pre-registration examination of the Royal College of Surgeons in Ireland. I hope that the presence of two university professors on our Examining Board will help forward what I have in mind, that chemists should also be exempted from the Pre-medical Registration examination of the National University of Ireland.

ELECTIONS AND NOMINATIONS

The following were elected to membership of the Society:—Messrs. D. P. Gillen, J. B. McDevitt, E. J. Sullivan.

The following were nominated for membership:—Mr. P. J. Connolly, Dr. J. J. Mackey, Messrs. J. J. Maye, P. J. Owens, P. Slattery, A. J. Walmsley.

Dental Board

THE thirty-first session of the Dental Board of the United Kingdom opened at 44 Hallam Street, London, W.1, on November 10, the chairman (the Right Hon. Sir Francis Dyke Acland, Bt.) presiding. After the roll call and the introduction of Dr. Denis J. Coffey as a member in place of Mr. Robert J. Johnstone, F.R.C.S., who has resigned, came the

CHAIRMAN'S ADDRESS,

which was unusually brief and contained few features of general interest. The chairman announced that the Discipline Committee has amended the "Important Notice" sent from time to time to all registered dental practitioners. The expenditure on bursaries has decreased substantially during the past three years, partly as a result of a change of policy and partly owing to a reduction in the number of applicants. The total amount of the awards made has declined from £13,250 two years ago to a little over £11,000 last year and to £8,300 this year. A new propaganda leaflet has been issued at a cost of £1,400 per million.

DISCIPLINARY CASES

On the first day of the session the Board considered ten cases brought against dentists. It was recommended that the names of the following three respondents be erased from the Register:—John Henry Port, Post Office Cottage, Oare, Faversham (untrue certification); John Knowles, L.D.S., Erving Terrace, Morecambe (untrue certification); Maximilien d'Espinay, 18 Hertford Street, Balsall Heath, Birmingham (convictions for drunkenness). The names of the following seven dentists were retained on the Register:—Arthur Bates, 396 Glossop Road, Sheffield, 3; Thomas Louis Callender, 53 Charing Cross Road, London, W.C.2; Lionel Newton, Palmer's Green, London, N.13; Oscar Trigge, L.D.S., Plymouth; Charles Windle, 73 Poulton Road, Fleetwood; John Donnelly, Falls Road, Belfast; Frank Barratt, 49 Westfield Lane, Mansfield. The last-named respondent appeared in consequence of convictions for obtaining credit by fraud; the other six were charged with untrue certification.

On November 11 eight cases were considered. It was recommended that the names of the following six dentists be erased from the Register:—Ernest Appleby, Ponders End; Albert Charles Hellyer Taylor, Wymondham, Norfolk; Robert Moonie Smith, 96 Shamrock Street, Glasgow, W.; Michael Henry Harte, 23 Eliza Street, Belfast; Thomas Fielding Tracey, 1159 Argyll Street, Glasgow, C.3; Thomas Gordon, 70 Park Road, Glasgow. In the first four of these cases the charges related to untrue certification; in the fifth and sixth the offences in the charges were drunkenness and theft respectively. The cases of Samuel James Tate, Cooke Street, Belfast (charged with motoring offences), and John Donaldson, L.D.S., Dunoon (charged with assault), were held over for twelve months for the production of suitable testimony to conduct.

Poisoning Statistics for 1935

THE latest annual statistical review of the Registrar-General for England and Wales, covering the year 1935, has just been issued, so far as Part I of the Tables (Medical: Stationery Office, 6s.) is concerned. The following table shows the general statistics side by side with those for the year 1934:—

	1934	1935
Population (estimated) ...	40,467,000	40,645,000
Birth rate (crude) ...	14.8 per 1,000	14.7 per 1,000
Deaths ...	476,810	477,401
Death rate (crude) ...	11.8 per 1,000	11.7 per 1,000
Poison deaths (corrected figures) {		
Accident ...	85	87
Suicide ...	747	657
Total ...	832	744
Ratio of poison deaths to total deaths ...	1 in 573	1 in 642

The figures as given in the report have been modified, following our usual practice, by the deletion of deaths occasioned by coal gas, insect stings, poisonous plants, the administration of anaesthetics and other causes not of practical concern to our readers. In illustration of the continuing fall in the proportion of accidental poison deaths to total poison deaths, we may extend a table we gave in our issue of December 17, 1932:—

1856 ..	Accidental poisonings	317	Total poisonings	457
1886 ..	"	228	"	507
1913 ..	"	211	"	723
1921 ..	"	122	"	479
1924 ..	"	97	"	501
1930 ..	"	134	"	849
1931 ..	"	86	"	760
1932 ..	"	82	"	848
1933 ..	"	100	"	915
1934 ..	"	85	"	832
1935 ..	"	87	"	734

Expressed as a ratio, total poisonings exceeded accidental poisonings in 1913 by about 3.4 to 1; in 1924 by 5.2 to 1; in 1930 by 6.3 to 1; and in 1935 by 8.4 to 1. (In the three years prior to 1935 the ratio, it will be noticed, was slightly higher owing to the larger figures for suicides). The figures for the individual items show some interesting changes. The drop of approximately 100 in the total suicides, for instance, is accounted for to the extent of more than half by the drop in suicides by means of lysol. Suicides by potassium cyanide have decreased to less than 50 for the first time since 1930, and those by hydrochloric acid are dropping steadily. On the other hand, there is a marked rise in suicides by aspirin, which for the past year exceed the combined totals of the three preceding years. With the new restriction on certain scheduled hypnotics—however weak in effect that restriction may be—it is not unlikely that suicides by aspirin will increase. On the accident side there is a satisfactory absence of outstanding features, with the single exception of the high total for luminal: the well-known attitude of coroners' juries renders it possible, to put it no higher, that some of these "accidents" were in reality suicides. The present statistical review of the Registrar-General indicates a decline in suicide frequency from a crude rate of 143 per million persons in 1932 to 129 per million in 1935, a decline which may fairly be related to the general improvement in the trade of the country. As far as poisons are concerned, we have pointed out in reviewing a previous report of this kind that the annual average number of accidental deaths from poisoning by opium, laudanum or morphine in 1882-86 was 81.6 and of suicidal deaths by the same means 40; in 1892-96 the respective figures had risen to 96.6 and 64.6; and in 1912-16 they had dropped to 36 and 35.2 respectively. With this drop came a rise in the incidence of deaths of both kinds by the agency of various synthetic hypnotics. The process is likely to continue, as we have seen, in the direction of aspirin and possibly of bromides and other substances.

We have again to record the fact that the extraction of relevant details from the tables and foot-notes in the report has been a lengthy and tedious task. The full table for the three years 1933-35 is appended.

Name of Poison	1933		1934		1935	
	Negligence and Accident	Suicide	Negligence and Accident	Suicide	Negligence and Accident	Suicide
A.B.C. liniment ...	3	3	—	1	—	2
Acetanilide ...	—	—	1	—	—	—
Acetic acid ...	1	5	1	—	—	1
Aconite (and aconitine) ...	—	2	—	—	—	—
Aconite and belladonna ...	—	—	—	1	1	—
Adalin ...	—	—	—	1	—	—
Aero-cotanol ...	—	1	—	—	—	—
Allonal ...	—	—	—	1	2	1
Ammonia ...	9	27	7	31	4	32
Ammonia, camphor, &c. ...	—	1	—	—	—	—
Ammonia and potassium permanganate ...	—	1	—	—	—	—
"Antimony" ...	—	—	—	—	—	1
Antimony chloride ...	—	1	—	—	—	—
Arsenic and preparations ...	2	7	1	9	3	7
Aspirin ...	7	9	10	11	7	36
Barbitone and salts ...	9	7	8	8	8	16
Belladonna (and atropine) ...	1	3	—	1	—	1
Benzene ...	—	—	2	—	—	—
Boric acid ...	—	—	—	—	1	—
Bromidia ...	1	—	—	—	—	—
Camphor (and camph. oil) ...	2	—	1	2	—	—
Carbolic acid and preps. ...	7	38	3	67	3	41
Chloral ...	1	1	3	2	2	1
Chloretone ...	—	—	—	1	—	—
Chlorodyne ...	—	—	—	2	1	1
Chloroform ...	2	2	—	1	—	2
Cinchophen ...	5	—	3	—	—	—
Coal-tar derivatives ...	—	—	—	4	—	3
Cobalt, salt of ...	—	1	—	—	—	—
Cocaine ...	—	—	—	1	—	1
Colocynth and hyoscy. ...	—	—	—	—	1	—
Copper sulphate ...	—	3	—	—	—	1
Creosote and preparations ...	—	5	—	2	1	3
Cresolene ...	—	—	—	2	—	3
Cresylic acid ...	—	4	1	8	—	4
Dial ...	3	3	1	2	2	—
Digitalis and preparations ...	—	1	1	—	1	—
Elsanol ...	—	—	—	—	—	1
Ergoapiol ...	1	—	—	—	—	—
Formalin ...	—	—	1	—	—	—
Heroin ...	—	—	—	—	—	—
Hydrochloric acid ...	5	108	4	72	—	62
Hydrocyanic acid ...	—	22	2	28	—	24
Iodine and preparations ...	—	2	1	2	—	4
Izal ...	—	8	1	4	—	3
Jeyes' fluid ...	—	2	—	8	—	3
Lime water (?) ...	1	—	—	—	—	—
Luminal ...	4	5	3	5	11	4
Lysol ...	4	326	3	286	2	230
Lysol and adrenaline ...	—	—	—	—	—	—
Medinal ...	7	8	3	11	6	7
Mercurous iodide ...	—	1	—	—	—	—
Mercuric chloride ...	1	1	2	4	1	5
Mercury, ammoniated ...	—	2	—	—	—	—
Mercury binioidide ...	—	1	1	—	—	—
Metaldehyde ...	—	1	1	1	—	—
Methyl alcohol ...	1	1	1	1	1	—
Methyl salicylate and preps. ...	2	2	2	1	3	2
Nembutal ...	1	—	—	—	1	—
Nicotine ...	1	10	—	13	—	16
Nitric acid ...	—	3	—	2	—	2
Nitro-hydrochloric acid ...	—	1	—	1	—	—
Nitrobenzene ...	—	—	—	3	—	—
Novalgin ...	—	—	—	—	1	—
Opium, laudanum and morph. ...	5	11	4	8	3	9
Oxalic acid ...	1	36	1	27	—	26
Paraldehyde ...	1	1	—	—	3	—
Phanodorm ...	1	1	—	—	—	—
Phosphorus ...	2	10	—	4	1	4
Potash, caustic ...	—	2	1	—	—	—
Potassium chromates ...	—	—	—	4	—	4
Potassium cyanide ...	1	72	1	60	2	44
Potassium oxalates ...	—	1	—	1	—	1
Potassium permanganate ...	—	3	—	1	—	—
Pyramidon ...	—	—	—	—	2	—
Quadrone ...	—	—	—	1	—	1
Quinine ...	—	—	1	—	—	—
Salicylic acid ...	—	—	—	1	2	2
Sedormid ...	—	—	1	—	—	—
Semonal ...	—	1	—	—	—	—
Sloan's Liniment ...	—	—	—	2	—	—
Soap liniment (meth.) ...	—	—	—	—	1	—
Soda caustic ...	4	—	3	1	2	—
Sodium arsenate ...	—	—	—	—	1	—
Sodium bromide ...	—	—	—	—	—	1
Soneryl ...	—	—	—	1	—	—
Strophanthus ...	—	—	—	—	—	—
Strychnine (and nux vom.) ...	1	13	1	13	1	10
Sulphuric acid ...	1	12	1	9	1	8
Turpentine and mixtures ...	—	—	1	—	—	—
Veramon ...	—	1	—	—	—	—
Zinc chloride ...	—	—	—	—	—	1
Zinc sulphate ...	—	2	—	—	—	—
Kind not stated ...	2	21	4	9	4	25

Trade Notes

NEW TANNIC ACID PREPARATION.—Clay & Abraham, Ltd., 87 Bold Street, Liverpool, 1, have introduced a new product

under the trade name of Tannol which is intended for the treatment of burns and scalds. This product consists of tannic acid in an acriflavine emulsion. It is issued in ordinary bottles for household use and in 16- and 80-oz. bottles for surgery and hospital use. The product itself is illustrated on this page together with a showcard which may be obtained on application. Informative literature has also been published.

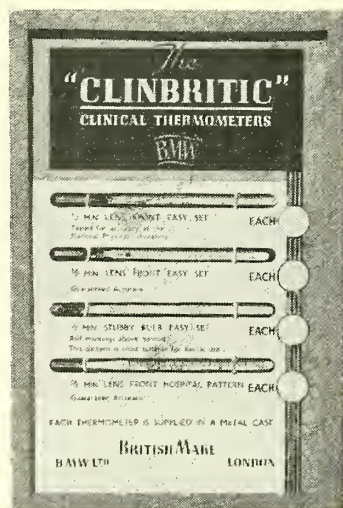


AZIADÉ PERFUMES.—We are asked to correct an error which appeared in the advertisement of Aziadé, Ltd., 172 Buckingham Palace Road, London, S.W.1. Following the introduction of their new compact perfume Ecstasy, a bonus of 13 to the dozen on orders of six dozen upwards is offered. National advertising in women's journals and the daily Press has begun. Ecstasy perfume is packed in flame-coloured boxes.

JOHANNESBURG EXHIBITION.—Wrens (Pty), Ltd., 60 Kerk Street, Johannesburg, inform us that they have obtained the sole concession as chemists at the Empire Exhibition in Johannesburg, which is open from September 15 to January 15, 1937. Sales are made at the stand, on which a display is made of pharmaceutical preparations in addition to the perfumery products of Yardley, Patou, Florel and other makers, including Max Factor. Photographic supplies are also shown.

VITAMIN-CONTAINING PREPARATIONS are being advertised by C. L. Bencard (1934), Ltd., Endersleigh Gardens, London, N.W.4, and extensive propaganda to the medical profession is proceeding. The products are: Greenosan which, in addition to the vitamins, contains chlorophyll and other ingredients, laxative Greenosan and Ceetamin tablets which contain 200 international units of Vitamin C in each tablet. These products are issued in bottles of four sizes. Further details may be had on application.

CLINICAL THERMOMETERS SHOWCASE.—Illustrated herewith is a showcase given free of charge with orders of three dozen Clinbritic clinical thermometers. These clinicals are issued by Britton, Malcolm & Waymark, Ltd., 38 Southwark Bridge Road, London, S.E.1. The case consists of a glass-covered cardboard container measuring 6 in. by 9 in. Within the case is a card printed in two shades of blue carrying four different thermometers. A space is left for adding retail prices if desired. Details may be obtained on application.



SHAVING BRUSHES.—G. B. Kent & Sons, Ltd., 75 Farringdon Road, London, E.C.1, announce the introduction of a new type of shaving brush entitled White Knight. Generous trade discounts

are offered and attractive display showcards are supplied free. Further details given elsewhere in this issue.

BABY HOT WATER BOTTLES.—We illustrate on this page specimens of a new type of hot water bottle produced by the

Reliance Rubber Co., Ltd., Cremerne Works, Lots Road, London, S.W.10. The bottle is described as "Cosycot"; it is offered in four colours: pink, pale blue, pale green and red, and in three designs, on which is represented an illustration of a nursery rhyme. The makers of this bottle are to be congratulated on the very fine type of engraving which has been produced on the front of the bottle. They are issued in cellophane "hang-up" bags as shown in our illustration. Each bottle measures 9 in. by 5½ in. Further details may be obtained on application.



CHRISTMAS GIFTS.—James Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester, 3, invite chemists to visit their showrooms and inspect their varied range of perfumes, coffrets, manicure sets, etc.

WEIGHING MACHINES.—An attractive new type of weighing machine has been introduced by Injecta (London), Ltd., Audrey House, Ely Place, London, E.C.1, and should recommend itself as a useful adjunct in the shop. The beam as well as the sliding poise is chromium-plated and the exact weight to the nearest quarter-pound can easily be ascertained. It has a weighing capacity up to twenty-four stones; its height is about 3 ft. 8 in. and the gross weight is about seventy-two lbs. This company issue a series of various types of weighing machines and illustrated leaflets with wholesale prices are available on application. Attention is directed to the announcement made in last week's issue regarding the Grosvenor personal weigher, which is nationally advertised. Details may be obtained from the makers: George Salter & Co., Ltd., West Bromwich.

A CLOCKWORK MODEL DISPLAY STAND has been issued by the Sovereign Confectionery Co., Ltd., Lowton, to assist the sales

of Brustine nose and throat bon-bons manufactured by Brustoc, Ltd., John Street, Warrington. An illustration of the device is given. The hand shown moves by clockwork from the customer to the package. These models are offered free with every initial order. Brustine bon-bons are sold in 28-lb. case units containing 14 lbs. of each of two kinds packed in 7-lb. tins. Printed bags are supplied free and 50 sample packets. With orders of ten cases, one case is supplied free in addition. Sales are made direct and are confined entirely to the trade. The two varieties of Brustine bon-bons consist of a white product which acts on the membranes of the nose while the green one is intended for the mouth. Further details are obtainable on application.



CHOCOLATES FOR CHRISTMAS.—Cadbury Bros., Ltd., Bournville, have introduced a new pack of chocolates in half- and one-pound boxes described as King Edward chocolates. They are packed in handsome caskets embossed in red and gold and carry photogravure illustration of his Majesty. This new product will commend itself to those chemists who make a feature of confectionery products especially at Christmas time. As a reminder of Cadbury preparations, the illustration which



appears on this page includes the well-known Bournville cocoa, Cadbury's cup chocolate and Bournvita, which represents one of the most agreeable and nutritious food-drinks at present available to the public. Apart from the appeal which it makes in regard to its flavour, Bournvita contains in a concentrated form, proteins, carbohydrates, mineral salts and vitamins. It is made from fresh full-cream milk and eggs from British farms, British malt and Empire cocoa. It is suggested especially as a beverage to be taken at bedtime.

ZILLA DEODORANT is now marketed by the manufacturers themselves: Lacoste et Cie, 15 Three Crown Square, London Bridge, London, S.E.1. It is stocked by the usual wholesale houses and is issued in three sizes.

HAIR-CURLING PRODUCTS.—The Vosemar Co., 11 Parsons Lane, Bury, have introduced two hair-curling products described as Curly Top for children's hair and Vosemar for adults' hair. National advertising has begun, and details were given in the C. & D. advertisement pages last week.

ANTI-GAS MATERIAL.—T. J. Smith & Nephew, Ltd., 42 Tavistock Square, London, W.C.1, inform us that they are manufacturers of filter refills and anti-gas tape. A list of makers of these products was included in last week's issue. Messrs. Smith & Nephew notify us that they are on the War Office list of contractors for both items.

BOB MARTIN PRODUCTS.—Handsome new display stands, which are illustrated herewith, are available for promoting sales of Bob Martin's condition powders. These display stands are particularly attractive and applications are invited. Our attention is also directed to a new ointment tin for the products of Bob Martin, Ltd., Southport, Lancs., which has just been designed and put on the market. "The



Lead" is the title of their house organ, which circulates amongst retailers. The current issue contains particulars of the new season's advertising campaign, and there is an article on a new powder which has been issued for cats. This product is mounted on hanging cards. Details of an assistants' competition, closing date for which is November 30, is included in the publication.

NEW PACK FOR NAILOID.—The Allcock Manufacturing Co., 22 Hamilton Square, Birkenhead, have issued an attractive new pack of their manicure product Nailoid, an illustration of which appears on this page.

COSY SHOPS.—The British Electrical Development Association, 2 Savoy Hill, London, W.C.2, have recently issued a brochure on how to warm the shop assistant. This brochure gives an interesting account of how heat can be obtained in definite positions in the shop and so contribute materially to the comfort of those engaged in serving. Copies of the brochure may be obtained on application.



DISPLAY STAND.—A new display stand for Kepler cod-liver oil with malt extract has just been produced. It is suitable for counter or window display and carries one packing. Kepler products are issued by Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.1.—Calcium gluconate and iron has been issued as a tabloid effervescent product for use in conditions which arise from a deficiency of calcium and iron. This product is supplied in tubes of 20 products.



BEAUTY PRODUCTS.—We have received from The General Apothecaries' Co., Ltd., 49 Berners Street, London, W.1, specimens of their skin food and skin tonic. The skin food is packed in opal jars with bakelite top, and the tonic in artistic shaped bottles. These products are issued as Gacol cosmetics and a brochure containing a complete list of Gacol beauty products, together with the raw materials issued by the company, is available on application.

ZANT GERMICIDE.—We have received from Evans Sons Lescher & Webb, Ltd., Hanover Street, Liverpool, a specimen of the new showcard which has been issued to assist in propagating the sale of Zant germicide described as a non-poisonous antiseptic. Reference to this product was made in the C. & D., October 3, p. 382.

IOZONE IODINE SMELLING SALTS.—Illustrated on this page is a showcard carrying the new product Iozone (iodine smelling salts) issued by the Duke Pharmaceutical Co., Ltd., 123 Duke Street, Liverpool, 1. These salts are packed in small bottles with green bakelite top.

NEW MEDICINAL PRODUCT.—Coates & Cooper, Ltd., 94 Clerkenwell Road, London, E.C.1, inform us that during the present month a new speciality described as salvacid is being introduced to the medical profession. This product has been issued for the treatment of gastritis, hyperacidity and gastric and duodenal ulcers. An illustrated brochure for the information of the medical profession has been issued. Salvacid is stated to be composed of ox-bile derivatives combined with the antispasmodic principle of sage and parathyroid extract together with alkalis. It is issued in bottles of 50 tablets.



Personalities

MR. BERTRAM WEBSTER, M.P.S., is now residing at Moray Hotel, 57 Kensington Gardens Square, London, W.2.

MR. L. H. HARTLAND-SWANN, a director of Lever Brothers, Ltd., recently left this country on a tour of Australia and New Zealand.

MR. S. J. STEARN, M.P.S., F.S.M.C., Ipswich, member of the N.P.U. Executive and immediate past-chairman, has been appointed a justice of the peace for the borough.

SIR HARRY MCGOWAN, chairman and managing director of Imperial Chemical Industries, Ltd., left England on November 11 on a visit to Australia and New Zealand.

MAJOR J. H. B. WIGGINTON, M.C., T.D., M.P.S., director of Erasmic, Ltd., Warrington, successfully contested the Latchford ward in the recent local municipal election.

COUNCILLOR ASHLEY T. WEBB, a director of Sangers, Ltd., was elected Mayor of Hertford on November 9. A photograph of the Mayor and Mayoress receiving congratulations was published in "The Hertfordshire Mercury," November 13.

AMONG the candidates connected with the drug trade who were successful at the recent local municipal elections were the following: Mr. A. L. Bower, Lincoln; Mr. J. Collett, M.P.S., Beckenham; Mr. E. J. Dobson, M.P.S., Deal; Mr. J. Stanley, M.P.S., Nottingham; Mr. Milo Turner, M.P.S., Tamworth.

MR. GERALD McDONALD, C.C., chairman of the Public Health Committee of the Corporation of the City of London, presided at a presentation dinner to the outgoing chairman, Captain G. S. Elliston, M.C., M.P., etc., held at the Innholders' Hall, London, E.C.4, on Monday, November 16. The Lord Mayor and the Sheriffs, together with a representative gathering of members of the Corporation, were present. Captain Elliston is secretary to the Society of Medical Officers of Health and editor of "The Medical Officer."

DR. JOSEPH G. TAIT, M.R.C.S., L.R.C.P., Ph.C., who made his first appearance as resident secretary in Scotland of the



DR. J. G. TAIT, Ph.C.

Pharmaceutical Society at an Edinburgh meeting on November 13, has gained an extensive experience of pharmacy in retail business, in the Edinburgh Royal Dispensary and in the Scottish offices of the Society. In the Analytical Tournament (covering six months) conducted by THE CHEMIST AND DRUGGIST Dr. Tait gained first place in 1903, obtaining prizes of books

and a certificate. At the Heriot-Watt College, Edinburgh, he won a medal in advanced organic chemistry and a first-class certificate in honours organic chemistry. His medical qualifications were obtained in 1922, and in the following year he added to them the Edinburgh Diploma in Public Health. Dr. Tait has been assistant secretary in Scotland of the Pharmaceutical Society for some years past; he has also practised medicine, and has had experience in the working of the National Health Insurance scheme and the Edinburgh public medical service. On the Consultative Council on Medical and Allied Services of the Department of Health for Scotland he is the pharmacy representative. This is a significant list of qualifications to fill the responsible post to which he has been called. We learn, with reference to the brief paragraph regarding Dr. Tait that appeared among our "Scottish Notes" last week, that he has been in sole charge at 36 York Place, Edinburgh, since October 1, and that all communications relating to the Society's affairs should be addressed to him.

MR. G. W. HARRISON, joint managing director and chairman of Lofthouse & Saltmer, Ltd., manufacturing chemists, Hull, recently completed fifty years' association with the business. In commemoration of the event he was given a mahogany standard lamp and a fountain pen by the employees (presented by Mr. G. Selby, who spoke of the esteem in which Mr. Harrison is held) and an easy chair by the directors of the company. Mr. Harrison started his career as an apprentice to the late Mr. Elijah Brackenbury, Bardney, Lincolnshire, and after two years with Corbyn, Stacey & Co., London, he went to Hull in October 1886 as a clerk and town traveller to Messrs. Lofthouse & Saltmer. He spent over forty years "on the road" during that time, representing his firm over a large area, and making a host of friends. In the early days the journeys were worked with horse and gig. With the advent of motor cars, Mr. Harrison was one of the first travellers in the drug trade to use a car. He was a well-known figure in his travelling days, and was as welcome amongst his brethren of the road as with the chemists. Always a lover of the country, Mr. Harrison's interests, outside business, include archaeology as especially associated with the many fine old parish churches to be found throughout the countryside.



MR. G. W. HARRISON

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1936, p. 322.

(From "The Trade Marks Journal," October 21, 1936.)

"SOLVIT"; for all goods (48). By F. Hulse & Co., Ltd., Woodlesford, Leeds. 571,186. (Associated.)

APPLICATION AMENDMENT

The specification for "FENSAN" in Class 3, No. 567,388, by Fissan, Ltd., has been amended to "medicated preparations for external use."

(From "The Trade Marks Journal," October 28, 1936.)

"DAXAD"; for chemicals for scientific research (1). By Dewey & Almy, Ltd., Shell-Mex House, Strand, London, W.C.2. 570,505.

"DUSARIT"; for water softening preparations (1). By United Water Softeners, Ltd., Gunnersbury Avenue, London, W.4. 571,892.

"PASCOL"; for photographic chemicals, etc. (1). By Mander Bros., Ltd., St. John's Street, Wolverhampton. 571,618.

Design of apparatus; for all goods (2). By C. E. S. Co., Ltd., 71A Sanicroft Street, London, S.E.11. 571,541.

Births

Notices for insertion in this column must be properly authenticated.

LEITCH.—At 11 Church Street, Portknockie, on November 2, the wife of James Leitch, M.P.S., Aberdeen, of a daughter.

Deaths

ALLAN.—At Redcar, on October 29, Mr. Charles Joseph Allan, chemist and druggist, aged seventy-three.

BRUCE.—At his home in Montgomerie Street, Larkhall, on November 15, suddenly, Mr. William Bruce, chemist and druggist (E. & M. Bruce, Ltd., chemists, 138 Union Street). Mr. Bruce, who was in business for over forty years, qualified in 1893. He was a member of the Larkhall Merchants' Association, and held office as chairman.

EVANS.—Recently, Mr. William Herbert Evans, chemist and druggist, 1 Offerton Road, London, S.W.4. Mr. Evans qualified in 1910.

FENTON.—Recently, Mr. Noel Stephen Fenton, chemist and druggist, West Bridgford, aged twenty-eight.

FRAYN.—Recently, Mr. Alfred Frayn, chemist and druggist, Salisbury Terrace, Stoke, Plymouth. Mr. Frayn qualified in 1887.

LEES.—At Shettleston, Glasgow, on November 2, Mr. James MacDonald Lees, M.P.S. Mr. Lees qualified in 1920.

McDOWELL.—At 20 Blackheath Road, London, S.E.10, on October 30, Mr. Henry McDowell, chemist and druggist, aged fifty-five.

SENIOR.—At Wakefield, recently, Mr. Herbert Clare Senior, chemist and druggist, Howe End, Kirbymoorside, aged fifty-six.

STEEDMAN.—Recently, Mr. Thomas Middleton Steedman, chemist and druggist, 14 Butcher Row, Beverley. Mr. Steedman qualified in 1904. He was a Past-Master of the Constitutional Lodge and had held other masonic offices.

STEPHENSON.—At Northampton General Hospital, on November 14, following a motoring accident, Mr. F. McCarthy Stephenson, 593 London Road, Westcliff-on-Sea, aged sixty-three. For twenty-five years Mr. Stephenson represented Warrick Brothers, Ltd., 6 Nile Street, London, N.1.

WELLBURN.—At Lee, London, S.E.12, recently, Mr. John Samuel Wellburn, chemist and druggist, aged eighty.

Business Changes

MR. B. HALE, chemist and druggist, has purchased the druggist business of Mr. A. Byram, 303 Breck Road, Liverpool, 5.

STANDARD SYNTHETICS, LTD., 76 Glenthams Road, Barnes, London, S.W.13, have an extra telephone line, and their numbers are now Riverside 3616/7.

MR. A. N. BARROW, Ph.C., 317 Allesley Old Road, Coventry, has acquired the business of Wright's Drug Co., Ltd., 10 Manor Court Road, Nuneaton.

MR. M. BLORE, chemist and druggist, has acquired the business of Mr. J. E. Enderby, J.P., chemist and druggist, Bull Ring, Horncastle, who retired last week after forty years in business.

MAX FACTOR, HOLLYWOOD & LONDON (SALES), LTD., have taken larger premises at 16 Old Bond Street, London, W.1, in which salon, offices and advertising department will be situated. It is anticipated that the new premises will be occupied before the end of the year.

As from November 16 the address of Home Office, Air Raid Precautions Department, including the supply branch formerly situated in Abbey House, Victoria Street, S.W.1, is: Home Office, Air Raid Precautions Department, Horseferry House, Thorney Street, London, S.W.1. Telephone: Whitehall 8100.

Recent Wills

MR. JOHN FELL, joint managing director of Messrs. Clay & Abraham, Ltd., Liverpool, who died on September 7 last, aged fifty-three, left estate gross value £4,649, with net personalty £3,489.

MR. FREDERICK WILLIAM BATES, M.A., J.P., M.P.S., 7 Darley Road, Darley Park, Old Trafford, Lancashire, an alderman of Stretford, Lancs, who died on September 4 last, aged seventy-nine, left estate gross value £8,209, with net personalty £7,877.

Coming Events

This section is reserved for advanced notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, November 23

Pharmaceutical Society, Ipswich and District Branch, Picture House, Tavern Street, Ipswich, at 7.45 p.m. Mr. H. D. R. Matthews (Potter & Clarke, Ltd.) on "Pharmaceutical Processes on a Manufacturing Scale."

Liverpool Chemists' Association and Branch, Royal Institution, Colquitt Street, Liverpool, 1, at 8.30 p.m. Meeting to discuss the Shops (Sunday Trading Restriction) Act.

Keighley and District Chemists' Association, Mr. Kershaw's rooms, Keighley. Meeting.

Tuesday, November 24

Guild of Public Pharmacists, Liverpool Branch, Royal Institute, Colquitt Street, at 8 p.m. Mr. W. A. Woodard on "Oily Preparations of Acriflavine."

Thames Valley District Pharmacists' Association and Branch, Three Fishes Hotel, Richmond Road, Kingston-on-Thames, at 8.45 p.m. Lantern display of colour photographs by Mr. Nelson Clarke.

Peterborough and District Chemists' Association, Angel Hotel, Peterborough at 8.30 p.m. Dr. J. Stanley White (Farke, Davis & Co.) on "Hormones." Illustrated by lantern slides.

Pharmaceutical Society, West Ham and Eastern District Branch, The Church Institute, 27 Romford Road, Stratford, London, E.15 (near the Town Hall), at 9 p.m. Mr. F. W. Adams (assistant secretary of the Pharmaceutical Society) on "The Storage and Labelling of Poisons" and "Sunday Trading Restriction."

Wednesday, November 25

Pharmaceutical Society, West London Branch, Stewart's Restaurant, 50 Old Bond Street, W.1 (corner of Piccadilly), at 8.30 p.m. Speaker: Mr. F. W. Adams (assistant secretary of the Pharmaceutical Society).

Manchester Pharmaceutical Association, Junior Branch and Guild of Public Pharmacists, Manchester Branch, Plaza Ballroom, Oxford Street, 8 p.m. to 1 a.m. Dance in aid of the Benevolent Fund. Tickets, 3s. 6d. each, from the guild secretary or the junior secretary.

Cardiff and District Pharmacists' Association and Branch, Park Hotel, Cardiff, at 7.0 for 7.30 p.m. Annual dinner and dance.

South-West London Chemists' Association and Branch, Ardington Rooms, Clapham Junction, S.W.11, 7.30 p.m. till midnight. Dance. Tickets, 3s. each, from social secretary.

Tees-side Pharmaceutical Association and Branch, Cleveland Technical Institute, Corporation Road, Middlesbrough, at 7.30 p.m. Business meeting, followed by demonstration of the tintometer and fluorescence analysis with an ultra-violet lamp, by Mr. A. Surfleet (Lofthouse & Saltmer, Ltd.).

Leeds and District Pharmaceutical Benevolent Committee, Victory Hotel, Briggate, from 8 p.m. to 1 a.m. Dance, whist drive and supper. Tickets, 5s. 6d. each, from secretary.

London College of Pharmacy, Criterion Restaurant, Piccadilly Circus, W.1. Annual dinner and dance. Dinner, 7 for 7.30. Dancing till 2 a.m. "Old Cyanide" tickets, 9s. 6d. each, from 361 Clapham Road, S.W.9.

Thursday, November 26

South-Eastern Associations, Bush House Restaurant, Aldwych, W.C.1, from 8 p.m. till midnight. Reunion supper. Films of the "South-Eastern" visit to Germany and of the "Day at the Zeiss Works, Dresden." Tickets, 6s. each, from the secretary.

Liverpool School of Pharmacy, Old Students' Association, Reece's Ballroom, Parker Street, Liverpool. Dance. Tickets, 3s. 6d. each, from secretary or school.

Friday, November 27

British Association of Chemists, Waldorf Hotel, London, W.C.2. Annual dinner and dance. Dinner at 7 p.m. Tickets, 12s. 6d. each, from secretary.

Saturday, November 28

British Association of Chemists, Waldorf Hotel, Aldwych, London, W.C.2, at 3 p.m. Annual meeting.

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THE CHEMIST AND DRUGGIST

VOL. CXXV.

November 21, 1936

NO. 2963

The Wider Industrial Toxicology

To those of our readers who perused the abstract of the interesting and informative lecture of Dr. Donald Hunter on "Industrial Toxicology of To-day" on p. 545 of last week's issue, the thought may have occurred that modern industry is, indeed, a hazardous business. It is appropriate therefore to refer to the Chadwick public lecture given by Mr. Robert R. Hyde, director of the Industrial Welfare Society, to be assured that specific industrial hazards can on occasion be over-emphasised. There was, of course, no suggestion in Dr. Hunter's lecture that modern industry was beset with dangers which could not be overcome. In point of fact, to turn again to Mr. Hyde's article, we find that the real industrial hazards lie not in diseases associated with particular processes, but in the ordinary ailments which afflict not only workers in factories, but others whose lives are spent in what appear to be more congenial and at any rate less turbulent conditions, that is to say, those who work in offices and shops. According to Mr. Hyde, amongst the insured population of the country, thirty-one and a half million weeks' work is lost each year through sickness. The crippling diseases are not those associated with specific industries, but the ordinary complaints under which heading is included colds, influenza, gastric affections and tonsillitis. Absence due to sickness as a result of these ailments constituted no less than 58 per cent. of the total loss.

It is hardly necessary to emphasise the fact that great industries to-day are most careful of the health of their workers. As Lord Trent, who was chairman for Mr. Hyde, pointed out, the humanitarian aspect of the employment of labour has reached the stage where the position of the worker as a human being and not as a mere cog in the machine is fully recognised. The modern adaptation of the adage "the labourer is worthy of his hire" is obviously that the labourer is not only worthy of his hire, but is also worthy of being looked after from the point of view of healthful surroundings during his work and from that of adequate housing, facilities for recreation, and adequate leisure to enjoy it. Private welfare work amongst the great industries of this country is considerably in advance of Government views in regard to the ordinary members of the community. For an industrial concern to have its workers fit, healthy and efficient is an achievement which not only results in successful production but makes for contentment and happiness among the workers during their periods of leisure as ordinary citizens. At a time when public health occupies so large a field, it is noteworthy that the pioneers of welfare work on a large scale were industrialists whose names are writ large on the pages of the commercial history of the country, shining examples of whom were the late Lord Leverhulme and the Cadburys of Bournville. Mr. Hyde, who has been director for eighteen years of the Industrial Welfare Society which he was instrumental in forming, has a unique experience in regard to the welfare work undertaken by firms of all types and

sizes. Some indication of the importance of the welfare work undertaken at the present time may be gathered from the following extract from Mr. Hyde's address:—

Many large firms at the present time had their own works doctor, and he held a very important position, supplementing the work of the certifying surgeon, seeing that suitable work was given to new entrants, and light work to those recovering from illness, supervising the general hygiene of the factory, cleaning, lighting, ventilation and sanitation. He had great opportunities for research into specific hazards and preventive medicine. Through close human contact with the workers he could advise them on matters of hygiene and on domestic, social, and economic problems, as well as form an important link between them and the management. There was no evidence of bias on the doctor's part in favour of the employer, nor of serious clashing between him and the general practitioners, for he was chiefly concerned with preventive work and early treatment.

The provision of a well-equipped ambulance room or surgery was one of the foundations of an effective health service, and larger firms had trained nurses or teams of ambulance men to assist the doctor. Some of them provided other special treatment, dental, ophthalmic, ultra-violet ray, massage or remedial work. The doctor was generally responsible to the managing director of the labour department, and attended works councils or special committees of the employees, where these existed.

In smaller firms employing only a part-time doctor, the nurse played an important rôle. Since a third of the total number of factories in the country employed less than 100 people, the problem of health services among them was a difficult one, but a possible future development was that of small firms co-operating to set up a joint medical service.

Many employers not only contributed to the health of their employees by medical services, but by improving factory conditions and providing better housing and facilities for recreation in leisure hours.

The point to be noted in this connexion is the gradual movement of current thought towards the prevention of disease rather than its cure. There is, unfortunately, little indication of any falling off in the need of the population at large for medicines under National Health Insurance. Although much has been accomplished, it is obvious that in this country we are still almost at the beginning of welfare work, and in a few decades there will almost certainly be a falling off in the need for medicine, thanks to the inculcation of new ideas of health and how to conserve it.

October Trade Returns

THE growth in the aggregates of our import and export trade in all classes of merchandise continues, with the October returns showing imports nearly nine million pounds more than in the preceding month and, for the ten months, £76,700,000 in excess of the value of the corresponding

—	Imports	Exports of U.K. Goods	Total Exports including Re-exports
	£	£	£
October, 1936 ...	80,539,176	41,764,413	46,234,552
" 1935 ...	73,374,837	39,864,711	44,597,127
" 1934 ...	68,762,410	36,748,545	40,749,213
Jan.-Oct., 1936 ...	688,135,718	361,786,012	411,785,044
" 1935 ...	612,395,938	351,643,053	396,898,480
" 1934 ...	605,290,407	325,755,519	369,428,014

figures in 1935. Exports and re-exports increased by about fifteen million pounds, thus the trade balance has increased by about £61,700,000 during January-October, 1936, compared with relative 1935 figures, and the deficit is approximately £276,350,000 for the ten months.

Imports of "Chemicals, Drugs, Dyes and Colours" continue to be valued at well over a million a month; the October arrivals were £14,000 in excess of imports during September and were the highest for any month this year. Imports for the ten months are £824,000 up on the corresponding figures for 1935. The total value of exports and re-exports for the ten-month periods of 1936 and 1935 show practically no change, standing in the region of £17,700,000. The credit balance in this class of goods is therefore slightly more than seven million pounds to October 31, 1936. Imports of "Chemicals, etc." from Germany continue to increase sharply and total £3,529,295 for the ten months—one-third of our total landings. Arrivals from the U.S.A. have also increased to £1,775,017 and from France to £701,481. Canada continues to be the leading Empire source with the value for ten months at £458,460.

Chemicals, Drugs, Dyes and Colours	October			January–October		
	1934	1935	1936	1934	1935	1936
Imports ...	£'000 1,045	£'000 1,342	£'000 1,216	£'000 9,354	£'000 9,557	£'000 10,381
Exports of U.K. manufacture	1,890	2,070	1,910	17,154	17,589	17,334
Re-exports ...	30.7	32.2	34.9	618.1	320.3	341.3

The leading foreign purchasers of British-made chemicals during October were America with £80,839; France, £57,875; Argentine, £57,156; Sweden, £52,447; Egypt, £42,439; Holland, £39,742; Belgium, £37,167, and Brazil, £32,947. Our shipments to Italy were valued at only £335 and to Spain £366. The chief Empire destinations were: India, £240,000; Australia, £188,407; Canada, £187,494; South Africa, £129,382; New Zealand, £92,270, and British West Africa, £60,883. The value of chemicals liable to key industry duty imported during the first nine months of this year was declared at £712,387, compared with £654,969 and £782,401 in the corresponding periods of 1935 and 1934.

A Risk with Bromides

ON another page of this issue will be found abstracts of two monographs on a subject briefly and expressively described as bromide intoxication. The cases recorded in the second monograph are classified as fatal, severe and mild; and details are given of a method of estimating the bromide present in the patients' blood. It appears that although certain types of patient are especially susceptible to bromide intoxication, there is a large "unknown" factor; for the normal level of less than 3 mgm. per cent. can sometimes be raised to 200 mgm. per cent. without evidence of serious toxicity. In their discussion of therapeutic considerations the authors of this second paper make the sound observation that prescribing bromides without knowing the chloride-fluid intake is tantamount to prescribing an indefinite quantity of bromide. They add that certain patients receiving 10 gr. of a bromide three times a day develop toxic symptoms in four or five weeks. In view of the fact that in National Health Insurance dispensing the proportion of mixtures containing bromide is variously estimated at from one in seven to one in ten, it is probable that in some instances the prescribing of potassium bromide or its equivalent has hardened into a habit for which it would be difficult to find a satisfactory reason. The authors to whom we have referred suggest that this widespread use of bromides is probably due in part to "the fear of the barbiturates." In a matter of this kind the observant pharmacist may on occasion call the attention of a prescriber to a possible or probable risk.

Students' Competition

First Problem

Identify the constituents present in the powder supplied, which is a mixture of not more than two organic substances described in the British Pharmacopœia. Isolate one of the constituents and express your opinion as to its purity according to the "Tests for Purity" as outlined in the B.P. Entries will be accepted up to November 28.

New Books

Fritz Ferchl and A. Süssenguth.—*Kurzgeschichte der Chemie*. 10 × 7½ ins. Pp. 217. Gesellschaft für Geschichte der Pharmazie (Society for the History of Pharmacy). Arthur Nemayer, Wittenwald, Bavaria. [A short history of chemical and pharmaceutical development from the earliest times to the nineteenth century. The work is profusely illustrated with reproductions from many sources; of particular interest is the development in design of chemical apparatus, from the clumsy forms of the early chemists to the perfected patterns in use at the present time. (In German.)]

Brookes, A.—*Trade Register of Egypt and the Sudan*. 6½ in. × 10½ in. Pp. 304. A. Brookes, P.O. Box 727, Alexandria, Egypt. [The names and addresses of the leading firms established in Egypt and the Sudan, arranged under 81 trade and professional headings (given in four languages) indicating the commodity markets in which they are specially interested. And an alphabetically arranged list of the leading overseas firms transacting business with Egypt, with details of their products, trade names and names of their agents.]

"A Handbook to Pharmacy"

Comments from Various Sources

(From "The Script," November 1936)

On the making of books about pharmacy I thought we had the field covered, and nothing was more surprising than to find there was a place for another book to fill space hitherto left blank. "A Handbook to Pharmacy," by William Kirkby, M.Sc., and published by THE CHEMIST AND DRUGGIST, 28 Essex Street, W.C.2, price 5s. 4d. post free, provided me with an epitome of information which is spread over numerous other works, and it is all comprised within 200 pages. The book appears to be designed with the idea of giving the salient facts relating to all sides of pharmacy rather than to expound the whys and wherefores. It is thus a book that is a key to other books on pharmacy, including the Pharmacopœias. Drugs are classified and only the essential details given. It really is a *multum in parvo* of facts, and should be on the desk—not the shelves—of every pharmacist.

(By R. Cecil Owen, B.Sc.)

The results of many years' study have gone to the compilation of an extremely valuable work which will, one hopes, find its way into every pharmacy. In a limited space it is impossible to enumerate the contents of so comprehensive a book. Scarcely anything of pharmaceutical interest is omitted—all within a compass of 200 pages. The extract of the B.P. will be found of particular interest, as will such sections as those on polarimetry, the poisons laws, bacteriology, physiology, endocrinology, microscopy, vitamins and thermometry. Very useful again are the various tables, such as those dealing with alcohol strengths, solubilities, heights and weights, doses, and many more. The business side of pharmacy is not neglected; there is a short chapter of memoranda and business data. Particularly interesting is the section devoted to non-official *materia medica*—and in reading it one wonders again why so many useful remedies are omitted from each successive B.P.

The book's interest is not solely practical or mercantile. There are sections of academic interest, as the opening chapter dealing with the history of the B.P. Two difficulties have confronted the writer: how to cram a quart into a pint pot, and how to compile a volume interesting equally to the student and to the qualified pharmacist.

Poisons and Poisoners

THE North British Branch of the Pharmaceutical Society held its first meeting of the session at 36 York Place, Edinburgh, on November 13, Mr. F. W. M. Bennett, chairman of the executive, presiding. The chairman presented Ph.C. diplomas to eleven students who had recently passed the examination. He also presented the Biochemical Analysis diploma to four successful candidates. The Chairman, in introducing Professor Sydney Smith, said he was known to them as the editor of the latest edition of Taylor's "Medical Jurisprudence" and the author of a text-book on "Forensic Medicine." He was also one of the three Scottish members of the Poisons Board. He asked Professor Smith (Professor of Forensic Medicine and Dean of



PROFESSOR SMITH

the Faculty of Medicine, University of Edinburgh) to read a paper on

Poisons and Poisoners

[ABSTRACT]

THE handling of poisons is mainly vested in the medical and pharmaceutical professions. At the present moment most of the dangerous poisons are to be obtained only from registered pharmacists under proper safeguards; some poisons, such as strychnine, cannot be obtained by the public, and other substances can be obtained only on a medical prescription. Arsenical weed-killers and sheep dips, insecticides, and certain other poisons used in horticultural and agricultural pursuits may be obtained from other registered sellers. It is desirable that pharmacists should have some knowledge of common poisons growing wild in many parts of the country, for example, a number of decorative plants of the solanaceæ group, such as belladonna; datura; hyoscyamus; bitter-sweet; *Conium maculatum*; aconite; digitalis; yew; laburnum, and others. Many cases occur from accidental poisoning by these common vegetable poisons, and any one of them may be used for criminal purposes. The root of the aconite is in common use for poisoning purposes in many parts of the world. It is used either in the form of the powdered root or the form of an extract. Its active principle aconitine is one of the most powerful alkaloids in existence. A poisonous glycoside similar in its effects to picrotoxin is found in several unrelated plants such as *Nerium oleander*, *Illicium verum*, *Cicuta virosa* and *Oenanthe crocata*, the last two being umbelliferous plants which grow wild in waste places. Hemlock is found in various parts of the world, and its active principle conine causes an ascending paralysis which ends in death by asphyxia. The common broom and the yellow jasmine both contain poisonous alkaloids similar in effect to conine. Our knowledge of many of the poisons has been derived from observing their effects when used by savage and primitive tribes. Probably our earliest knowledge was derived from the Egyptians; and several inorganic and organic poisons, including hydrocyanic acid, were known thousands of years ago. The Greek, Nicander, 200 B.C., wrote two volumes dealing with poisons, one of which was devoted to a description of opium, colchicum, henbane, aconite and conium. Dioscorides gave a detailed description of the mineral poisons, including arsenic, lead, mercury and copper; the vegetable poisons, including opium, hyoscyamus, conium, aconite, euphorbium, elaterium, colchicum and hellebore; and a dissertation on various animal poisons.

Poisoning has been employed from the earliest times as a means of getting rid of inconvenient political rivals and other troublesome individuals. In the early days of the Christian era the professional poisoner seems to have arisen. Locusta was perhaps one of the earliest of this notorious sect, and it is supposed that it was she who supplied the poison by which Agrippina got rid of Claudius in A.D. 26,

and from whom Nero obtained the poison which was given to his brother Britannicus. About the fifteenth century the Government in Venice formally recognised assassination by poison. Thus, in 1513, a certain Franciscan brother declared himself ready to remove any person whom the Council wished to get out of the way. He submitted a tariff in which his prices were 500 ducats for the Sultan, 150 ducats for the King of Spain, 60 ducats for the Duke of Milan, 100 ducats for the Pope. Porta published an extensive work in 1589 in which he gave an account of poisons used at that period, including the action of nux vomica, aconite and hellebore. He described a method for drugging wine with belladonna root, and gave the following recipe for a reliable poison: Aconite—yew berries—arsenic—powdered glass—unslaked lime, and bitter almonds, mixed with honey and worked into pills. Aqua Toffana or Acquetta di Napoli, supposed to have been a solution of arsenic in water or a solution produced by rubbing arsenic into the flesh of a hog and collecting the fluid which exuded from the putrefying flesh, is computed to have killed more than 600 people. The poisoner was not tolerated in Britain, and excited so much horror in the people that in 1542 a young woman was boiled alive at Smithfield for poisoning the members of her household with arsenic. Although so much has been written about poison lore and the romantic and remarkable ways in which poison has been administered, poisoning cases as a rule are characterised by a lack of finesse.

IN MODERN TIMES

In 1932 the total number of deaths by poison in England and Wales, was 2,584, of which 1,809 were due to coal gas. Of the other 775 cases, no fewer than 430 were due to lysol and carbolic acid—an extraordinarily crude method. Strong ammonia was used in thirty-two cases, hydrochloric acid in fifty-three, oxalic acid in thirty and sulphuric acid in six. All of these are extremely violent poisons. Cyanides were used on sixty-six occasions and strychnine on ten. Veronal and other barbituric derivatives were made use of only on seventeen occasions, opium and its derivatives seven times, and arsenic nine. Most of these cases were suicide. Murder by poison in this country is becoming almost non-existent. The fact that arsenic is so easy to discover may be the reason why it has figured so often in legal cases. It is possible that some more subtle poison may never have been discovered. Ingenious methods of administering arsenic have been adopted from time to time: A candle wick saturated with arsenic was supposed to have been used to kill Leopold I of Austria in 1670, and lamps impregnated with the same drug have been used in various parts of the East in recent times. There are many reasons for its being so popular a poison: it is comparatively easy to dissolve, it is without smell, without colour, and without taste; it has a certain time lag inasmuch as symptoms do not appear at once and the symptoms when they do arise may readily be assumed to be due to gastritis from natural causes. If the poison is given in small doses over a long period it produces a condition of general ill-health which may lead to death without exciting the suspicion of the medical practitioner. It was only towards the end of the eighteenth century that chemistry developed sufficiently to become a serious factor in the detection of poisons. In 1775, Scheele made the first observation of the combination of arsenic with hydrogen to form a fetid gas which could be decomposed by heat. That laid the foundation for the test which was eventually described by Marsh in the "Edinburgh Philosophical Journal" in 1836. Marsh's test, with various modifications, is still the most delicate test for arsenic. The most minute amount of arsenic may be readily detected at any period after death. Few poisons apart from arsenic have been proved to have been used in criminal cases. Amongst them was the case of Dr. de Pommerais, who murdered his mistress by the use of digitalis, in Paris about the year 1850. The first case in which morphine was used took place in 1823. The use of morphine is now comparatively common. Dr. Lamson used aconitine for the murder of his brother-in-law in 1882; this case was important because proof of its presence was accepted from its effects on animals. Crippen showed ingenuity when he murdered Belle Elmore in 1910 by means of hyoscine.

(To be continued)

Landlord and Tenant Act Problems

IV—Assessment of Compensation: Right to a New Lease

By a Barrister

AS we have stated in a previous article, it is very important that the tenant should carefully consider the question of what is the proper amount of compensation to be inserted in his notice of claim. If he claims too much he will create a bad impression on the Court; on the other hand, if he claims too little he will really be depriving himself of the additional sum to which he was properly entitled.

Another matter for consideration arises where the tenant is claiming a new lease in lieu of compensation. The principle on which a new lease is granted is that the sum which could be awarded to the tenant as compensation under the Act would not really compensate him for the loss that he would suffer by removing from the premises.

Let us consider this in some detail. Goodwill, as already explained in a previous article, may be either fugitive, personal or adherent. It is only in respect of the adherent goodwill (or rather that portion of the adherent goodwill which is directly due to the trading) that compensation is recoverable by the tenant. If the case is such that, while there is adherent goodwill, the rest of the goodwill is personal, which the tenant accordingly will take away with him, the tenant clearly is not entitled to a new lease; for in reality he loses nothing. He takes his personal goodwill away with him, and he is compensable for the adherent goodwill.

But the position is entirely different where there is an appreciable amount of fugitive goodwill, i.e., custom which will be dispersed among rival traders in the district, or will entirely disappear. This fugitive goodwill would represent the loss that the tenant will really suffer by removing. He can neither take such goodwill away with him, nor can he receive any compensation therefor. In such a case, accordingly, he would be *prima facie* entitled to a new lease, as the compensation recoverable under the Act will not cover such fugitive goodwill and will not accordingly compensate the tenant.

Claiming a New Lease

Where a tenant in a proper case proposes to claim a new lease instead of compensation, he should not fall into the error, into which the large majority of tenants do fall, of exaggerating the amount of compensation, and inserting a very high figure in his notice of claim. Such a course only tends to deprive the tenant of a remedy to which he might well be entitled. Because when the case comes into Court he is at once confronted with the argument that the compensation he is claiming must necessarily compensate him for his loss, an argument which, because of the attitude taken up by the tenant in connexion with the notice of claim, becomes somewhat difficult to refute.

And if it can be shown that the compensation recoverable will really compensate the tenant for his loss, the tenant in the new lease proceedings will be deprived not only of his new lease, but also of his compensation, because in these proceedings, if the above facts are proved, the Court will have no power to award the tenant any compensation. This, however, would not preclude the tenant from falling back on his right to compensation for goodwill under Sec. 4 of the Act, and from later instituting proceedings for the recovery of compensation after his tenancy had terminated and after he had quitted the premises. In order, however, to be in a position to do so later, the tenant must have served a notice claiming compensation for goodwill under Sec. 4 within the time required by the Section—a matter we have already dealt with.

This indicates, therefore, the advisability of the tenant serving two notices in relation to goodwill. He should serve not only a notice claiming a new lease, but he should also serve an independent notice claiming compensation for goodwill under Sec. 4, and he should do this even though his real intention is to claim a new lease. Let us now deal with some of the matters affecting compensation.

It will be remembered that it is only in respect of the goodwill directly due to the trading that compensation is recoverable. Any goodwill due to the situation of the premises, e.g., by being near a railway station or a tram or bus stop, etc., is expressly required to be disregarded. But these are not the only extraneous circumstances which must be disregarded. Such matters as, for example, the development of the particular locality, the increase in the number of residents, changes in the trade, such as the increasing use of powder, cosmetics and the like, are all matters which would tend to increase the volume of the trade; but they would have to be disregarded, because they would be automatic and not directly due to the trading. In the same way, there may be matters affecting the amount of fugitive goodwill. The fact that there was no suitable alternative accommodation in the district or within a reasonable distance to which the business could be transferred, without losing any appreciable part of the customers, would be a very important factor in such a case, because it would tend to show that an appreciable amount of fugitive goodwill would be lost to the tenant.

Conditions to be Fulfilled

We will now summarise the conditions to be fulfilled in order that the tenant should be entitled to a new lease.

(1) The tenant must in any event be entitled to compensation for goodwill under the Act.

(2) The amount of the compensation must be insufficient to compensate the tenant for his loss of goodwill.

(3) A notice claiming a new lease must be served, and the time for the service of the notice is the same as in the case of a notice claiming compensation for goodwill. The time for the service of this notice cannot be extended, and if the tenant is out of time, his right to a new lease will entirely be lost.

(4) But in addition this further condition must be complied with: he must institute proceedings in the Court claiming a new lease within the time prescribed by the Act. The time within which the proceedings must be commenced is within not less than nine months of the termination of the tenancy or, where the tenancy is terminated by notice, within not less than two months from the date of the service of the notice.

One word of warning is again perhaps necessary here. After the tenant has served a notice claiming a new lease, negotiations are likely to take place between the tenant and the landlord. But, despite such negotiations, the tenant, unless a definite agreement in the matter has been arrived at in the meantime, should on no account allow the last day for instituting proceedings to pass by without instituting such proceedings; otherwise he will be bargaining at a disadvantage, for he will have entirely lost his right to a new lease.

We will conclude by giving a model form of valuation:—

		MODEL FORM	
A. Average:—			£
Profits (taken over a period of at least 3 years)	...	...	1,000
B. Current Rent under existing lease	...	£250	
Present market rental of the premises (exclusive of rental due to goodwill)	...	£400	
Excess of market rental £400-£250	...	£150	
			150
			850
C. Hypothetical profit on basis that rental is market rental of £400	...	...	850
—£1,000-£150	...	...
D. Adherent profit:—			
75 per cent. adherent for right due to extraneous causes and causes not indirectly due to trading, 15 per cent.			
Net adherent profit:—			
75 per cent.—15 per cent.=60 per cent. of £850			510
E. Capital value of net adherent profit:—			
3 years' purchase—3 × £510	...	...	1,530
Compensation payable = £1,530.			

(The first three articles of this series appeared in THE CHEMIST AND DRUGGIST of September 5, October 3, and October 31 respectively.)

Bromide Intoxication

UNDER the title "Bromide Intoxication," Dr. R. F. Barbour contributes an informative monograph to Vol. 29, No. 11, of the "Proceedings of the Royal Society of Medicine"; and in a recent issue (3958) of "The British Medical Journal" he adds further details with the collaboration of Drs. F. Pilkington and W. Sargant.

The high percentage of patients who had received bromide before admission to the Maudsley Hospital led to further inquiries, and through the co-operation of two chemists the following figures were obtained:—400 consecutive prescriptions for "internal use" were examined, and it was found that one in seven contained bromide; potassium bromide was the salt most frequently prescribed. This figure was compared with the statistics of the National Health Insurance Acts, where it was found that one out of every ten prescriptions for "internal use" contained bromide. These figures give some idea of the large number of people taking bromide. The bromide ion is a toxic substance with a positive action on the tissues—that is to say, it acts because of its own properties rather than by producing a hypochloræmia. It is estimated that a 40-50 per cent. replacement of chloride is fatal, but toxic signs are produced when there is a 25 per cent. substitution. There are unfortunately no signs or symptoms which are specific for intoxication by bromide, and only a tentative diagnosis can be made on the history and clinical findings; if there is in addition a relatively high blood-bromide this diagnosis is made probable, but it will only be fully established when the symptoms change concurrently with the administration of sodium chloride. There is no uniform threshold at which symptoms appear. Most authors consider that they do not appear until a level of 225 to 250 mgm. is reached. This is definitely too high, and in certain people a level of 150 mgm. is quite sufficient to produce a definite degree of toxicity. Older patients and those with cardio-vascular or renal disease tend to produce toxic symptoms with lower concentrations of bromide. On the other hand, levels of 380 mgm. without evidence of toxæmia have been reported.

Clinical Symptoms

The clinical symptoms of a severe bromide toxæmia have been described by Diethelm. The patient is restless and agitated, getting in and out of bed with unsteady feet; the speech is slurred, the lips are quivering, and the hands are tremulous. The tongue is dry, the appetite is poor, and the bowels are constipated. Lesions of the skin do occur, but they are not the common symptoms that most text-books of pharmacology would have one believe, and they are usually only present in one out of every four or five cases. If the drug is not eliminated, the patient becomes comatose, and has an irregular pulse. Nystagmoid movement of the eyes may be seen and there is a loss of the deep reflexes. The mental picture is usually that of a delirium, although a bromide hallucinosis and a bromide paranoid state are also reported. There is, however, a quite different picture—also the result of bromide—which leads more frequently to errors in diagnosis and treatment; this is the mild case of intoxication which may be of recent onset or may be long-standing. The complaint is of fatigue, sleeplessness, difficulty in concentration, loss of feeling; the hands are slightly tremulous and the face appears "heavy." Headache, indigestion, and constipation may be complained of. Katzenelbogen, Goldsmith, and White in a series of induced intoxications found that headache, loss of appetite and weakness were the commonest initial symptoms. In their cases dullness and headache appeared over a blood-level range of 125-380 mgm.

Bromide intoxication would appear to depend upon several factors, of which five are outstanding:—(1) Bromide intake. (2) Chloride intake. (3) Excretion. (4) Personal factor. (5) State of bodily health. The average dose of bromides prescribed is 15-20 gr. t.i.d.; this figure is satisfactory when the patient is taking a normal diet containing from 10 to 15 gm. of sodium chloride a day. This ratio does not produce toxic symptoms unless the person has a marked idiosyncrasy. If, however, the chloride intake diminishes, then the toxic level may be reached very rapidly, especially as the intoxication will tend to diminish the appetite still further although the patient is likely to continue to take his medicine regularly. The major part of the bromide ingested is excreted by the

kidneys, and accordingly the blood-bromide level varies with the urinary output, which in turn depends upon the fluid intake and on the renal efficiency. The personal or constitutional factor remains, however, the greatest unknown quantity; just as some people can "carry" their alcohol without becoming toxic, so some patients can take bromides without ill effects while others cannot. For certain text-experiments six young male patients who had recovered from their nervous illnesses were given large doses of bromide—60 gr. three times a day. Once the blood-bromide had reached a level of 250 to 300 mgm. the experiment was stopped. Of these six, one complained that he went to sleep in the afternoon; four showed no toxic signs; the sixth, though unaware of any change in himself, was reported by the nursing staff to be boisterous and truculent, character traits which were not normal for him. In certain physical conditions, such as renal diseases and arteriosclerosis, the onset for toxic symptoms is earlier than normal, owing to increased retention of bromide. In addition, however, other factors—such as age—play a part, and here the patient is apparently more susceptible to the drug, for the toxic symptoms appear while the blood-bromide is still at a relatively low level, frequently below 150 mgm.

In order to remove the bromide from the tissues of a patient, the administration of bromide is stopped. Sodium chloride, 30 gr. t.i.d., is exhibited, and fluids are given freely. This slow excretion of bromides is important. One patient whose blood-bromide was 250 mgm. was taken off bromide but did not have sodium chloride: five weeks later he still had a bromide level of 130 mgm.; four weeks after this it was 90 mgm. Another patient who had been off bromide for over a month showed a level of 170 mgm. A third patient gave a reading of 70 mgm. two months after his last dose of bromide.

Blood Bromide Estimation

In order to estimate the blood bromide use was made of Walter's test as modified by Hauptmann and later by Dixon. For this, 2 c.c. of serum is delivered into a test-tube and 4 c.c. of water and 1.2 c.c. of 20 per cent. trichloroacetic acid are added. After shaking well and allowing to stand for ten minutes the mixture is filtered through No. 1 Whatman 7 cm. filter paper into another test-tube. Two c.c. of the filtrate is then taken and 0.4 c.c. of 0.5 per cent. gold chloride solution added in a special comparison tube. The colour produced by this mixture is then compared against a series of gold-bromide standard tubes by eye, or in the chlorimeter against the nearest of them. Preparation of standard solutions for serum: 1.45 gm. of pure dry sodium bromide is dissolved in 1 litre of water to make a stock solution. The standard sodium bromide solutions made as the table indicates are corrected to eliminate the error due to absorption of sodium bromide in the precipitation of protein from serum.

0.5 c.cm. of stock solution diluted to 10 c.cm.	= 25 mg. %
1.0 c.cm. " " " 10 c.cm.	= 50 mg. %
1.5 c.cm. " " " 10 c.cm.	= 75 mg. %
2.0 c.cm. " " " 10 c.cm.	= 100 mg. %
etc. ranging up to 500 mg. per cent. of sodium bromide.	

Five c.c. of these standard bromide solutions is added to the 1 c.c. of 0.5 per cent. gold chloride and 1 c.c. of 20 per cent. trichloroacetic acid in the comparison tubes, usually a rack of fifteen tubes from 25 mgm. to 375 mgm. per cent. by 25 mgm. steps being required. The above standards are so arranged that direct comparison gives the milligrams of sodium bromide percentage in the serum treated as described. Provided the tubes are hermetically sealed and kept in the dark they may be used for some months. The test is a very simple one, and has been found sufficient for all clinical purposes, the results being accurate to 5 per cent. either way. The more accurate microtitration methods are not required when dealing with the problem of intoxication, since it is only when the blood bromide reaches levels of 50 mgm. and upwards (normal is 0.5-2.5 mgm.) that it begins to be of clinical importance.

In various centres research is being directed towards solving the biochemical problems involved in bromide therapy; the effects of bromides on tissue respiration, the reaction of hydrobromic acid on the digestive enzymes and similar physiological functions are being studied. It would appear that very little indeed is known of how bromides work, or even of how they should be given.

Ministry of Health Report

THE seventeenth annual report of the Ministry of Health, covering the year 1935-36, has recently been published by H.M. Stationery Office (Cmd. 5287, 5s.). The material is arranged in four main parts with a full alphabetical index. The following summary gives some of the more important matters relating to pharmacy.

N.H.I. Contributions and Benefits

The number of voluntary National Health Insurance contributors continues to increase, the estimated total for England at the end of the year 1935 being approximately 529,000 (453,000 being men), compared with 499,500 (428,500 men) at the end of the previous year. Since the commencement of the Contributory Pensions Act, 1929, 1,046 persons have elected to be voluntary contributors for pensions purposes while resident in overseas Dominions. Of this number 488 have ceased to contribute. Four certificates of exception were issued under the National Health Insurance Act, covering about 300 persons. The number of certificates now in force is 419, held by 405 bodies. Thus the total number of persons employed who are covered by certificates of exception from compulsory health insurance is approximately 312,000 (including 227,000 men). In the year ended March 31, 1936, contributions paid under the Contributory Pensions Acts for persons in excepted employment, apart from contributions paid as voluntary contributions, amounted to £261,000. The number of persons holding certificates of exemption under the National Health Insurance Act on March 31, 1936, was 11,983, a slight decrease on the previous year. Of these, 9,349 were also exempt from Unemployment Insurance. The number of persons aged sixty-five and over engaged in insurable employment, for whom employers are required to pay pensions contributions on special cards issued and collected by the Department, remains fairly constant at about 300,000. It is estimated that the amount of the contributions received for these persons in the year 1935 was about £405,000. In the year ended December 31, 1935, legal proceedings were instituted against 1,662 persons for offences under the National Health Insurance Act. The following summary shows the types of offences:—

Non-payment of contributions	1,315
Detention of contribution cards	567
Affixing previously used stamps to cards, and allied offences	23
Miscellaneous	62

During 1935 the total expenditure on treatment additional benefits for members resident in England amounted to £2,128,000, of which £1,450,000 was expended on dental benefit, £348,000 on ophthalmic benefit, £102,000 on convalescent home treatment benefit, £87,000 on hospital benefit, and £86,000 on medical and surgical appliances. These amounts represent only the contributions made by the approved societies and branches. The National Health Insurance and Contributory Pensions Act, 1935, which received the Royal Assent on August 2, made important changes in the National Health Insurance Scheme. The Act makes permanent provision for maintaining the insurance of genuinely unemployed persons, subject to their having been continuously insured for at least ten years before they ceased employment.

1935 Statistics

In 1935, the number of insured persons entitled to medical benefit was approximately 14,994,000. Nearly 16,000 doctors were in insurance practice, and medicines and appliances were supplied as part of medical benefit at about 12,000 chemists' shops. The total expenditure on medical benefit was £8,917,300. Of this sum insurance doctors received over £6,520,000 in respect of their duties of attending and treating insured persons, and £1,923,700 was paid to insurance chemists for the supply of drugs and appliances. The remainder was expended as follows. About £204,000 was paid to insurance doctors in rural areas on account of mileage. About £191,000 was paid to doctors for medicines and appliances supplied by them personally or for medicines dispensed by them in country districts. About £63,700 was paid on account of insured persons who exercised their option to claim treatment (including

medicines) through Approved Institutions. £7,900 was paid on account of insured persons who were required or allowed to make their own arrangements for medical benefit. Nearly £7,000 was set aside to enable country doctors to attend courses of post-graduate study. The method of payment for drugs and appliances supplied by insurance chemists terminated on December 31, 1935, and has been replaced by a revised agreement as from January 1, 1936. The difference consists broadly in the setting aside of 2s. 11d. in place of 2s. 9½d. per insurance person for whom the chemists are at risk to dispense, and in making provision for supplementing this amount, if necessary, by utilising certain balances left in the funds available for the provision of medical benefit. The new agreement is for the term of five years subject to the right of the parties to give six months' notice to terminate the agreement at the end of three years. The cost of drugs and appliances supplied by chemists during 1935 was met in full, but it was necessary to discount by rather more than 5 per cent. the dispensing fees payable after taking account of the emergency deduction above referred to. The number of insurance prescriptions dispensed increased from 57,987,000 in 1934 to 59,832,000 in 1935, and the average number of prescriptions issued per insured person entitled to supplies of drugs increased from 4.49 to 4.60. The total of the chemists' accounts rose from £1,941,874 to £2,010,435. The average ingredient cost per prescription rose from 3.677d. in 1934 to 3.703d. in 1935, and the average total cost of drugs and prescribed appliances per insured person from 2s. 11d. to 3s. Regional Medical Officers paid 840 visits in 1935 (against 928 in 1934) to doctors whose prescribing appeared to call for explanation. In only a small number of cases did the Minister fail to satisfy himself that minor departures from reasonable prescribing standards would not recur. Remuneration was withheld, on account of excessive prescribing, from six doctors, against three in 1934; for infringements of their terms of service, £665 was withheld from 96 doctors. The number of cases in which money was withheld from insurance chemists on account of breaches of their terms of service decreased to 175, compared with 179 in 1934 and 184 in 1933. The total amount withheld being £239, compared with £252 in 1934 and £257 in 1933. "These figures . . . show that the high standard of insurance dispensing to which attention has been drawn in previous reports has been maintained during the year." Under the schemes for testing drugs and appliances 4,240 samples were tested and the proportion of samples found on analysis to be correct, or so nearly correct that there was no ground for withholding remuneration, was over 95 per cent. The large majority of cases in which money has been withheld from chemists have been those in which substantial inaccuracies have been revealed in the dispensing of test prescriptions. In most of the cases sums of £1 were withheld. The largest amount withheld was £10. £5 was withheld in five cases and £3 in nine cases. Two representations were made by insurance committees during the year with respect to the continuance of chemists on the lists of persons supplying drugs or appliances to insured persons. In one case the representation was withdrawn and the remaining case was outstanding at the end of the year. Three appeals were made to the Minister by chemists against decisions of Insurance Committees. Two of the appeals were dismissed, and the remaining appeal had not been decided at the end of the year.

Food and Drugs (Adulteration) Act

During the year 1935 143,831 samples of food and drugs were analysed by public analysts in England and Wales. This is an increase of 3,248 on the number for the previous year, and is the highest recorded. The number of samples reported against was 7,972, or 5.5 per cent., against 5.3 per cent. in 1934. Of 6,188 samples of drugs examined, 353 were found to be adulterated or not up to standard. Six samples of camphorated oil were deficient in camphor, four contained an excess of that substance, one contained water, and one contained 11 per cent. of a foreign volatile oil. A sample sold as castor oil was found to be camphorated oil, and a sample of sesame oil was found to be rape oil. A sample of halibut-liver oil contained not more than 30 per cent. of that oil, and four samples of halibut-liver oil sweets were reported to be deficient in that oil. Three

samples of cod-liver oil were reported against on the ground of non-compliance with the antimony trichloride test of the British Pharmacopœia, and two samples of "Malt Halibut Liver Oil" caramels, labelled as containing vitamins A and D, showed no evidence of the presence of any vitamins. Samples of zinc ointment were found to be deficient in zinc oxide or to contain an excess of that substance, and samples of boric ointment were deficient in, or contained an excess of, boric acid, one also being prepared with a yellow paraffin base. Carbolic ointment was found to be deficient in phenol; two samples sold as calomel ointment proved to be compound mercury ointment and white precipitate ointment, respectively; and two samples of calomel ointment and one of sulphur ointment were found to have been made with benzoated lard. A number of samples of mercury ointment were reported against, some of which contained an excess, and some a deficiency, of mercury. In one case, where mercury oxide ointment was supplied as mercury ointment, legal proceedings were instituted and a fine imposed. Twenty-one samples of sweet spirit of nitre were found to be deficient in ethyl nitrite, and samples of ammoniated tincture of quinine were found to contain incorrect proportions of quinine sulphate and ammonia. Some ammoniated quinine tablets were reported to be devoid of ammonia. Solutions of iodine were found to be deficient in iodine or potassium iodide or both, others contained an excess of one or both of these substances, and three contained industrial methylated spirits instead of alcohol. A number of samples of iodine ointment were entirely devoid of potassium iodide, and some of these were also more than 90 per cent. deficient in iodine. Glycerin of borax was reported to be deficient in borax, and samples of glycerin were found to contain added water, and in one case to be contaminated by lead. Talc was reported in aspirin tablets, and arsenic in tartrated iron. A sample of cream of tartar was reported to consist of tartaric acid, and other samples proved to be Rochelle salt. A sample of orange quinine wine was reported to contain 800 parts per million of benzoic acid, and no wine; one sample sold as orange quinine tonic wine was deficient in quinine, and another sample, sold by a hawker, was found to be a solution of a quinine salt, sweetened with sugar, coloured and flavoured. Other articles on which adverse reports were made included samples of seidlitz powder, grey powder and Gregory's powder, and samples of Glauber's salt and Epsom salts.

Wales

During 1935, 8,061 samples were submitted to public analysts, compared with 8,074 in 1934. The number below standard was 624. The numbers of doctors and persons supplying drugs or appliances to insured persons in Wales on April 1, 1936, were as follows:—Doctors, 1,413 (against 1,375 in 1935); persons supplying drugs or appliances, 1,041 (against 1,038). The cost of 2,613,501 prescriptions, priced by the Welsh Joint Insurance (Pricing) Committee in accordance with the Drug Tariff, was £90,165, compared with £87,882 for 44,747 in 1934. Payment was made at the rate of 89.78 per cent. of the dispensing fees for the period January 1 to June 30, 1935, and 94.505 per cent. for the period July 1 to December 31, 1935, and the amount paid to the chemists for the year was approximately £86,000. The cost of drugs supplied by practitioners to their insured patients during 1935 amounted to £17,800. The total payment for medicines and appliances supplied by doctors and chemists was £104,300, compared with £102,600 in 1934. The cost of insulin supplied to insured persons in 1935 was £2,451, compared with £2,799 in 1934. The total of the chemists' accounts amounted to £89,673 for 1935, compared with £87,348 for 1934. The average cost of drugs and prescribed appliances, as priced, per insured person entitled to obtain them from chemists was 2s. 7.58d. in 1935, compared with 2s. 6.23d. in 1934.

The average costs per insured person entitled to medical benefit in Wales of drugs and appliances for the two years 1934 and 1935, after discounting the chemists' accounts for 1935 and making the emergency deductions for 1934 and 1935, were 2s. 4.64d. and 2s. 5.61d. During 1935, 320 samples of medicine and sixty of appliances were taken and reported upon. Of the 380 reports received, twenty-nine (7.6 per cent.) were referred for formal investigation to the Pharmaceutical Service Subcommittee. In six cases no action was considered necessary. In seven, a warning letter was sent by the Minister. In eight, money was withheld from chemists' remuneration and six are still under consideration.

Items in Parliament

BILLS INTRODUCED

In the House of Commons recently the following Bills have been presented:—

Shops (Retail Trading Safeguards) Bill.—"To protect independent retail shopkeepers against uncontrolled establishment of centrally owned or administered multiple shops and co-operative trading stores. . . ."

Registration and Regulation of Osteopaths Bill.—"To regulate the practice of osteopathy and to prescribe the qualifications of osteopathic practitioners."

MEDICINE STAMP DUTIES

Under an Order of the Day on November 11, a Select Committee was appointed to consider the duties of excise chargeable under the Medicines Stamp Act, 1802, the Stamp Act, 1804, and the Medicines Stamp Act, 1812, and any enactment amending those Acts, and to report thereon and make such recommendations for the alteration of those duties or otherwise as they should think fit with a view to reforming the law relating thereto. Mr. Acland, Mr. Baxter, Admiral Beamish, Mr. Benson, Sir Reginald Blair, Mr. Cary, Sir John Ganzoni, Mr. George Hall, Mr. Hardie, Mr. Haslam, Mr. Lewis Jones, Mr. Keeling, Mr. Lathan, Captain Ramsay and Sir Arnold Wilson were nominated members of the Committee. (C. & D., August 8, p. 145.) On November 16 it was ordered "That Mr. Haslam be discharged from the Committee on Medicine Stamp Duties and that Sir John Haslam be added to the Committee."

SHOPS ACTS INSPECTIONS

The Home Secretary was asked whether, in view of the unsatisfactory inspection under the Shops Acts by some local authorities, he would consider setting up a special department for this purpose on similar lines to those of factory and workshop inspection?

Sir John Simon: No, sir. I have no evidence before me which would justify such a radical departure from the principle of local administration of these Acts, which has been deliberately re-affirmed by Parliament in two recent statutes. —Further questioned whether he would consider the desirability of calling for an annual report from all local authorities in order to find out how these Acts of Parliament were working, Sir John replied: I will, of course, consider the hon. gentleman's suggestion, but, as he knows, the Home Office has always been ready to take up cases brought to its attention, and there have been instances undoubtedly in which good results have followed.

HOT WATER BOTTLE DUTIES

Introducing orders for additional import duties, Dr. Burgin (Parliamentary Secretary to the Board of Trade) made the following reference to hot water bottles: Order No. 26 deals with hot water bottles. (Laughter.) They are very desirable articles in anybody's luggage in an English climate.

(A member: Why tax them, then?)

Dr. Burgin: Because we want to tax the cheap hot water bottles coming here from Germany and Japan in order that our own manufacturers may be encouraged. The Order imposes from September 6, 1936, the first date on which a hot water bottle is likely to be required, a duty of 4s. 6d. per dozen bottles, as an alternative to the present duty of 20 per cent. *ad valorem*. British manufacturers can supply most of the demand, but of late the foreign competition has increased to 12,500 dozen in the first six months of 1936 compared with less than one-third of that quantity in the first six months of 1935. The foreign goods have for the most part been imported at extremely low prices. The way to deal with the competition of low-priced articles is not by a percentage duty, but by a specific duty, and the Committee have adopted that sensible suggestion. There is no reason why British manufacturers should not be able, with the supplies of rubber available, to make every hot water bottle that this country requires.

(A member: Can the British manufacturer do that?)

Dr. Burgin: It is not in accordance with the information supplied to the committee or to me that the British manufacturer is working to such capacity that there is no ability to fulfil more orders.

Homer Nods

By Scrutator

THE Poisons Board, in its report (p. 3), recognised the objection that the Poisons List requires "technical assistance to discover what in some cases it includes" and recommended that an explanatory memorandum be prepared and issued to overcome such objection. During 1936 the Home Office has issued four memoranda for the benefit of suppliers other than authorised sellers of poisons, viz.:—No. 1 for shopkeepers; No. 2 for wholesalers; No. 3 for practitioners and hospitals; and No. 4 in respect of agriculture and horticulture. The interest to retail chemists is that these are in effect an admission that the question of deciding whether or not an article is a poison is complicated by the Poisons Rules extending and relaxing the provisions of the Pharmacy and Poisons Act, 1933. The exemptions from the First Schedule to the Poisons Rules, or from the Act itself, have resulted in even experts differing as to the restrictions and requirements applicable to a particular product.

The four memoranda disclose similar divided opinions and counsel. Thus, No. 3 (Practitioners) states on p. 5 that "From these particulars it may easily be deduced whether the preparation is a *First Schedule substance* or not," whereas No. 2 in reference to any case of doubt on the same point advises (p. 7):—

It is to be appreciated that these will be matters of fact upon which neither the Home Office nor any other body can give any ruling but which, in the event of a prosecution, would require to be determined by the Court upon chemical evidence. In all cases of doubt, therefore, the *wholesaler* should seek the advice of an analytical chemist."

The latter statement shows a remarkable belief in the accuracy attainable by assay, but in reality disclaims any responsibility in regard to the advice given in the same paragraph (5) on "How to ascertain whether and to what extent a wholesaler's business is affected." This is particularly unfortunate, as the retail "seller" is liable for the wholesaler's mistakes.

This selfsame memorandum (Poisons, No. 2 (Wholesalers)) exemplifies the ease with which anyone, even the Home Office, may be in error. Paragraph 22 emphasises that "the articles in the Seventh Schedule to the Rules must not be labelled 'POISON' but with the word prescribed in the Schedule [Section 18 (1) (c) (iii) and Rule 19]." In regard to the most important notice (i.e., "Caution. It is dangerous to exceed the stated dose"), a footnote on p. 13 adds:—

†In the absence of any judicial decision to the contrary it would seem that a medicine made up and labelled with directions, dose, etc., ready to be handed by the retailer to the public may be regarded as a "medicine made up ready" even though it has to be diluted before use. Fifty or a hundred Easton's syrup tablets in a bottle labelled with the dose should, for example, be treated as "made up ready" whereas a "dispensing pack" of hundreds need not.

The excellence of the advice is discounted by the fact that Easton's syrup tablets are First Schedule poisons and must be labelled "*Poison*."

It is true that by sugar-coating and making the tablet weigh over $7\frac{1}{2}$ gr. (by adding over 3 gr. of sugar-coating per tablet) Easton's syrup tablets become exempt from the First Schedule, but no reference is made to sugar-coated tablets. From which it is evident that the Home Office has blundered badly as a result of an oversight (which, by the way, could not have occurred if the C. & D. Poisons Guide had been consulted). The fact that even the Home Office can "nod" ought to be a lesson that there are many difficulties in complying with the strict letter of the new poisons law, and in particular that neither pharmacist nor physician can be expected to make extempore decisions in border-line cases (e.g., prepacked sugar-coated Easton's syrup tablets of unknown weight).

TESTS FOR MILK.—The Minister of Health has issued a pamphlet ("Bacteriological Tests for Graded Milk" (Memo. 139/Foods): H.M. Stationery Office, 3d.) giving directions for carrying out tests to ascertain whether milks entitled to be called "Tuberculin Tested," "Accredited," or "Pasteurised" comply with the prescribed standards for the bacterial content of such milks.

Japanese Quinine Developments

(From our Tokio Correspondent)

DU E to the efforts on the part of the Japanese Government and private enterprise during the past thirty years, Japan is likely to become self-supporting in regard to supplies of quinine within the next ten years, and may even be able to export quinine preparations. Judging from the acreage in Formosa where loxa trees are under cultivation, the output of cinchona bark will reach some 630 metric tons during the next ten years. With an average net output ratio of 4 per cent., it is estimated production will reach 25 metric tons of quinine. This quantity equals the domestic consumption for 1934, which was a record of recent years. The Dutch quinine interests have raised quotations for bark to such an extent that importation into Japan has become increasingly difficult.

Since 1901 the Japanese Government has been encouraging the cultivation of cinchona trees in Formosa. The tree is felled and barked at the age of ten years, on an average, contingent upon quinine content and other considerations. In the Government scheme 25 metric tons of net output are provided for. This means that on a basis of 4 per cent. of refined product to 100 per cent. bark 300 hectares of fellable trees must be available every year. It is for this reason that the Japanese Government is now providing afforestation of 300 hectares yearly. With the domestic consumption of quinine averaging no more than 21.3 metric tons, there would be still an excess production for export. After twelve years of experiments, actual planting was started in 1912 on the highlands in the south of Formosa at an altitude of 3,500 to 4,000 ft. above the sea. To start with, young trees were imported from Java. The experiment failed, due to adverse climatic conditions and the varying quality of the soil. Later on a British botanist introduced the loxa tree in seed form. His efforts had fairly good success, but storms destroyed the plantation. Mr. Hajime Hoshi, founder of the Hoshi Pharmaceutical Company, in co-operation with the Kyoto Imperial University, opened an experimental plantation, where he studied the possibilities of acclimatising the plants and increasing the natural quinine content in the bark, which had been tending to recede. The result of these tests was that the commercial possibilities of loxa cultivation in the Japanese colony were fully confirmed. Young trees were distributed to the Formosan planters. Also some Japanese pharmaceutical concerns, such as the Takeda and Shiono companies of Osaka and Formosan Pharmaceutical Company of Taihoku, commenced loxa growing. The Kyoto Imperial University, who recently opened a 150-hectare plantation, will continue to plant an additional 100 hectares annually for the next ten years. The Hoshi tree nursery is now capable of supplying some 150,000 trees annually. And the Central Laboratory of the Formosan Government has now over 300 hectares of loxa under cultivation. Pains-taking researches have been conducted in order to increase the net output of quinine. Professor Daigaku Numata of Kyoto University has been engaged in this problem for some years and is reported to have devised a method of enhancing the quality of the trees. He is confident, it is reported, that the quinine content will be increased by 50 per cent., or to 6 per cent. as compared with the present 4 per cent. yield, if his methods are generally applied. Thus far the Japanese efforts have been making due allowances for normal domestic consumption of the drug; there may be an over-production of five metric tons within ten years.

WORKS SPORT.—Parkinsons, Ltd., manufacturing chemists, Burnley, have presented cups for snooker and bowling. The firm's sports club was inaugurated in 1928 with cricket and football sections. Four years ago the club won the town's cricket championship, a success which has been repeated in the last two seasons. The works league eleven have played forty-three matches without defeat in two seasons, and have scored 2,354 runs for the loss of 186 wickets. A member of the side won the league batting prize, and another the bowling prize. The firm's swimming team have won the Burton cup and the ladies' team the Arbuthnot shield. The ladies have also won the silver trophy for tennis singles for the last three years, and have been runners-up in netball.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, November 19

A FAIR seasonal business is reported, but the markets have not been quite so good as they were during the past week or two. Little actual shipment business seems to have been done in Italian produce. One or two consignments of Spanish produce have come to hand this week, but, in general, business with that country is more than difficult. We believe, however, there is a movement to cancel the Anglo-Spanish "Clearing" arrangement, and this may take place during the coming week. Such a development would facilitate trade. Orders from the near Continent have been on a good scale this week, and fair sales to America are also reported. Except for a few minor alterations prices quoted for PHARMACEUTICAL CHEMICALS are unchanged, but many of the Continental products are unsteady.

Crude Drugs

Fairly good business continues in a range of these products and re-export trade has been satisfactory. New crop AGAR for shipment is firm. CURAÇAO ALGAE have sold well on spot and are now in restricted supply. In CARDAMOMS the shipment price for BOMBAY SEED is sharply dearer. Better business in CASCARA SAGRADA is reported, mostly spot sales. DESICCATED COCONUT shows a further advance. Bergen reports good business in COD-LIVER OIL. COLOCYNTH PULP is scarce and dearer on spot; no Apples. Seasonal business in DERRIS Root is opening up. Spanish and/or Portuguese ERGOT is neglected at current values; no offers from Russia. GENTIAN is definitely firmer. All descriptions of HONEY are fully steady on spot; business rather quieter. MATTO GROSSO IPECACUANHA has sold at increasing values and is now very short on spot; nothing offered forward. Fair business in Japanese MENHOL with values about maintained. Spanish MERCURY is firm. Good export sales of OPIUM this week. Rough round RHUBARB is slightly dearer, spot and forward. Interest in TRAGACANTH is still centred round the question of further supplies for this market. Meanwhile stocks, particularly of the white grades, are extremely low, and very high and increasing prices are being asked for druggists' fine white ribbon.

Essential Oils

Rather quieter markets are reported, but values are being fully maintained. Forward prices for foreign expressed ALMOND tend cheaper. ANISE (STAR) is steady but rather quiet on spot; no forward offers from the source. Any quotations for BERGAMOT are at high figures. JAVA CITRONELLA eased a little for shipment but has since fully recovered; the Ceylon oil is rather dearer on the week. Madagascar CLOVE and Australian EUCALYPTUS are firm, due to lack of supplies. The quotations for Sicilian hand-pressed LEMON are being rushed up; the market may be strong but it remains to be seen whether the position justifies the present trend of values. Quotations for Sicilian sweet and bitter ORANGE received seem of no interest. PALMAROSA is firm at the recent advance. Japanese PEPPERMINT continues to sell well on spot.

A drug auction will be held on Thursday next, November 26.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	Nov. 12	Nov. 19
Amsterdam ...	Fls. to £	12·107	9·07	9·04
Berlin ...	Mks. to £	20·43	12·12	12·14
Brussels ...	Belgas to £	nominal	28·85	28·90
Copenhagen ...	Kr. to £	18·159	22·40	22·40
Lisbon ...	Esc. to £	110	110	110
Madrid ...	Ptas. to £	25·22½	nominal	nominal
Milan ...	Lire to £	92·46	92½	92½
Montreal ...	Dol. to £	4·86½	4·87½	4·88
New York ...	Dol. to £	nominal	4·88	4·88½
Oslo ...	Kr. to £	18·159	19·90	19·90
Paris ...	Fr. to £	124·21	105½	105½
Prague ...	Kr. to £	164·25	138	138½
Stockholm ...	Kr. to £	18·150	19·40	19·40
Warsaw ...	Zloty to £	43·38	26	26
Zurich ...	Fr. to £	25·2115	21·24	21·25

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

THE general tone on spot continues fairly steady, with business about average for the season. Practically all Continental products continue unsteady on spot. Salicylates meet with a steady demand and aspirin is well up to the quoted values.

AMIDOPYRINE.—Spot offers continue keen, making the Convention prices nominal: crystals, five cwt., 18s. 0½d.; two cwt., 18s. 5½d.; less than two cwt., 18s. 10½d. per lb., with powder, 2½d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—A quiet market, values unchanged: one cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d., in 1-lb. tins; 1s. 10½d., in 8-oz. tins, and 2s. 1d. per lb., in 4-oz. tins.

ASPIRIN (TABLETS).—The following are agreed wholesale prices for the British makers: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000 and over, 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For small quantities higher prices would be asked by wholesale distributors.

BARBITONE.—Market continues unsteady and quiet: spot, one cwt., 15s. 3½d.; 56 lb., 15s. 8d.; small parcels, up to 16s. 3d. per lb.

BENZOIC ACID (B.P.).—Makers' prices steady: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Makers' scales of prices are steady: Carbonate, B.P., one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; less than 8 lb., 8s. 6d. per lb., with rebates on contracts for larger quantities.

BROMIDES.—Makers' scales of prices steady. No Continental quotations. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb., net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Export quotations are maintained, as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

CHLORAL HYDRATE.—Makers' prices steady as quoted: duty paid crystals, in 14-lb. free containers, five cwt., 3s. 2d.; one cwt., 3s. 3d.; 28 lb., 3s. 4d.; 14 lb., 3s. 4½d. per lb.; 28-lb. jars, one penny per lb. extra.

CHLOROFORM.—Prices quoted by the makers are: two cwt., 2s. 5½d. per lb.; one cwt., 2s. 6d.; 56 lb., 2s. 6½d.; less, 2s. 7½d. per lb., in w-quarts of 8 lb. Packed in drums, ½d. per lb. less. Small bottles extra, from 5d. per lb. for ¼-lb. bottles to 1d. for 2-lb. bottles. Carriage paid on minimum cwt. lots.

CITRATE.—Makers' prices steady at the reductions recently recorded.

CITRIC ACID (B.P. CRYSTALS).—Market is quoted at former values: British material quoted at 1s. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COCAINE.—British makers' prices for this market for wholesale bulk quantities are as follows: HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 6d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. PURE CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz., 16-oz. packages free, smaller packing extra. The scales of prices applicable to distributors of smaller quantities are as follows: HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.; ½ oz. and less than 1 oz., 37s. 11d.; ¼ oz. and less than ½ oz., 40s. 11d. per oz. PURE CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.; ½ oz. and less than 1 oz., 40s. 8d.; ¼ oz. and less than ½ oz., 43s. 8d. per oz., packages extra. Re-sale: Sales subject to buyers undertaking not to re-sell any quantity at below the scale price for such quantity current at the time of re-sale. Export quotations have been withdrawn.

CREAM OF TARTAR.—Average business, market steady: British material, 99 to 100 per cent., 79s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

CREOSOTE (B.P.).—Occasional business on spot: bulk quantities, in 25-kilo demijohns, 1s. 8d.; small parcels, 1s. 9d. to 2s. 3d. per lb., ex store.

GUAIACOL CARBONATE.—Moderate inquiry, with quotations competitive in the region of 9s. per lb., according to quantity.

GUAIACOL (CRYSTALS).—Dealers are quoting 14-lb. jars at 10s. 2½d.; 7-lb. bottles, 10s. 2½d. and 1-lb. bottles at 10s. 8½d. per lb., ex store.

HEXAMINE.—Makers' prices for bulk quantities are keen; moderate business: B.P. powder, at about 1s. 3d.; free-running crystals from 1s. 4d. to 1s. 8d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, one cwt., 1s. 4d.; 14 lb., 1s. 8d.; smaller parcels, up to 2s. per lb., carriage paid.

MERCURIALS.—Makers' scales of prices continue firm: not less than one cwt., ammoniated, B.P., lump, 5s. 5d.; powder, 5s. 7d.; bichloride, B.P., lump, 4s. 8d.; powder, 4s. 4d.; chloride, B.P., 5s. 5d.; yellow oxide, B.P., 5s. 10d.; persulphate, white, B.P.C., 5s. 7d.; sulphide, black (hyd. sulph. cum sulph., 50 per cent.), 5s. 6d.; less than one cwt., ammoniated, B.P., lump, 5s. 6d.; powder, 5s. 8d.; bichloride, B.P., lump, 4s. 9d.; powder, 4s. 5d.; chloride, B.P., 5s. 6d.; yellow oxide, B.P., 5s. 11d.; persulphate, white, B.P.C., 5s. 8d.; sulphide, black (syd. sulph. cum sulph., 50 per cent.), 5s. 7d. per lb. Special prices for large quantities.

METHYL SALICYLATE.—Seasonal business continues with quoted prices unchanged: spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; less than one cwt., 1s. 2½d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Very quiet on spot and quotations are irregular: two cwt., 19s. 3½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, up to 20s. 9d. per lb.

PARAFORMALDEHYDE.—Quotations are keen for bulk orders: 100 per cent. powder, quantities in kegs, 1s. 1d.; smaller parcels, 1s. 1½d. to 1s. 6d. per lb., as to quantity.

PHENACETIN.—Not very much business, market steady as quoted: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7d. to 3s. per lb., as to quantity.

PHENAZONE.—Very cheap offers continue on spot, with business of small account: crystals, five cwt., 8s. 7½d.; two cwt., 8s. 9½d.; one cwt., 9s. 0½d.; and less, up to 9s. 6d. per lb., with powder 2½d. per lb. extra. Convention prices are nominal.

PHENOLPHTHALEIN.—Moderate small parcels business on spot: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHENYLETHYLBARBITURIC ACID.—Dealers are quoting about 24s. 6d. to 25s. per lb., in 2-lb. bottles, as to quantity.

POTASSIUM PERMANGANATE (B.P.).—Dealers are doing a fair business, mostly in small quantities: bulk quantities, in drums, 8d. to 8½d.; druggists' parcels, 9d. to 1s. per lb., as to quantity.

QUININE SALTS.—Convention prices continue nominally unchanged. Quoted in sterling, no foreign currencies: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; bihydrochloride, 3s.; hydrobromide, 2s. 8½d.; bihydrobromide, 3s.; valerianate, 3s. 8d.; hypophosphite, 4s.; alkaloids, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

RESORCIN.—Market is steady, with average business: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., up to 6s. per lb.

SACCHARIN.—The Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—Fair business, makers' prices unchanged: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 10d.; 4 lb., 2s. per lb.

SALOL.—Spot material is offering at very keen prices, with business quiet: quoted from about 2s. 4d. to 2s. 8d. per lb., as to quantity.

SANTONIN.—Occasional limited business on spot, with the quotation not more than £14 per kilo, ex store. U.S.A. imports of santonin, from all sources, in the period January-August 1936 totalled 1,137 lb., valued at \$26,855, compared with 661 lb., valued at \$13,475, during the corresponding period of 1935.

SODIUM BENZOATE (B.P.).—Fair amount of business at competitive prices: bulk quantities, 1s. 6d.; one cwt., 1s. 7d.; smaller parcels, 1s. 8d. to 2s. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Market is steady as quoted: spot, one cwt., 12s. 3d.; 28 lb., 12s. 6d.; 14 lb., 12s. 9d.; 7 lb., 13s.; smaller parcels, up to 13s. 6d. per lb.

SODIUM SALICYLATE (B.P.).—Business on a moderate scale; quoted unchanged: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 11d.; 7 lb., 2s.; 1 lb., 2s. 3d. per lb.

SULPHONAL.—Market is irregular, with business quiet: crystals or powder, two cwt., 15s. 5½d.; one cwt., 15s. 10½d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 9d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Quoted unchanged: British makers quote at 1s. per lb., less 5 per cent. discount. Dealers offering foreign materials at competitive prices.

THYMOL.—Business quiet, market steady: synthetic, fine white, two cwt., 5s. 10d.; one cwt., 6s.; 56 lb., 6s. 3d.; 28 lb., 6s. 9d.; smaller parcels, 7s. 6d. per lb.; ex ajowan seed, one cwt., 8s. 5d.; 56 lb., 8s. 10½d.; 28 lb., 9s. 5½d.; 14 lb., 10s. 6d. per lb.

Crude Drugs, etc.

ACONITE ROOT.—Spot supplies of new crop *Napellus* continue to be quoted from 80s. to 85s. per cwt., as to quantity.

AGAR.—Moderate business on spot, values quite steady. New crop is quoted firmly from the source, who report a shortage of some grades of raw material for which they are having to pay higher prices: spot, Kobe No. 1, 2s. 8d. to 2s. 9d.; No. 2, 2s. 6d.; Yokohama No. 1, 2s. 5d. per lb.; shipment, prompt, Kobe No. 1, 2s. 5d.; No. 2, 2s. 1½d.; Yokohama No. 1, 2s. 1d. per lb., c.i.f. New crop, January-February shipment, firm at 2s. 2½d., c.i.f., with bids at a penny less rejected.

ALOES.—Quite a nice business is again reported in Curaçao and supplies are now becoming limited; shipment market steady. Cape unchanged: Cape, spot, 60s. to 62s. 6d., as to quality; shipment, prime, 57s. 6d. per cwt., c.i.f., in small boxes. Curaçao, spot, 97s. 6d. to 125s., as to quality; shipment, ranges from 92s. 6d. to 97s. 6d. per cwt., c.i.f.

ANTIMONY.—Chinese crude for November-December shipment is quoted at £25 15s., c.i.f. English regulus, £67 10s. to £68 10s., spot.

BALSAMS.—A slow market, with values unchanged: *Tolu*, 1s. 9d.; *Canada*, 2s. 8d.; *Copaiba*, 1s. 2d.; *Peru*, 5s. 4d. per lb., spot.

BARBASCO ROOT.—Some parcels on spot, basis 5½ per cent. rotenone, would be worth about 1s. 2d. per lb.

BENZONIN.—There has been a fair demand of late with parcels priced at 87s. 6d. to 45 per cwt., good value, being at the lowest figures for some years.

BUCHU.—Sales have been restricted to the movement of a few bales, with prices quoted about unchanged but not firm. Rounds, 2s. 7d. to 2s. 9d.; and ovals, 2s. 2d. to 2s. 3d. per lb., as to quality.

CAMPHOR.—Average sales, with prices, spot and forward, quite steady: Japanese, spot, tablets, 2s. 5d.; powder, 2s. 2½d.; slabs, 2s. 2½d. per lb., duty paid; shipment, tablets, 2s. 1½d.; powder, 1s. 11d.; slabs, 1s. 10½d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz. and ¼ oz., 3s. 6d. per lb. Contracts at special prices.

CANTHARIDES.—Moderate small spot parcel business, market steady: spot, Russian, 6s.; Chinese, 1s. 10½d. to 2s. per lb., as to quantity; shipment, 1s. 8d. per lb., c.i.f.

CARDAMOMS.—Business has been quieter this week, but values are fully maintained, with Aleppy greens quoted for shipment at 3s. 4d. per lb., c.i.f. Bombay seed shows a further sharp advance for shipment, the quotation now being 4s. 7d. per lb., c.i.f. Any spot material would be fully 4s. 8d.

CASCARA SAGRADA.—A little more doing in this article and prices are fully steady, particularly for shipment. Spot, 1933 peel, 65s.; 1936 peel, 56s. 6d. per cwt., ex store. Shipment, 1934 peel, 56s.; 1936 peel, 52s. per cwt., c.i.f., in bulk quantities.

CELERY SEED.—Dealers' prices for spot goods continue to be held in the region of 110s. per cwt., as to quantity.

CHAMOMILES.—Values are keeping quite steady, and range up to 120s. per cwt. for best white flowers, ex store. Business has been of small account.

CLOVES.—Values are fully maintained on spot, business rather quiet Zanzibar, spot, 8½d.; shipment, November-December, 7½d. per lb., c.i.f. Madagascar, in bond, 7½d.; shipment, November-December, 7½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended November 14 were 106, and the deliveries 117, leaving a stock of 1,869. From January 1 to date the landings of Zanzibar have been 4,579 and the deliveries 3,597. Landings of Madagascar for the week ended November 14 were nil, and the deliveries 181, leaving a stock of 1,145. From January 1 to date the landings of Madagascar have been 3,177 and the deliveries 3,394 packages.

COCOA BUTTER.—Market is steady as quoted. Prime English, 1s. 1½d. to 1s. 2d. per lb.; foreign, 1s. 0½d. to 1s. 1½d. per lb., as to quantity.

COCONUT (DESICCATED).—At the further advance the market is firm and fairly active: spot, fine, 26s. 3d.; medium, 25s. 9d. per cwt.; shipment, halves, November, 25s. 6d.; December, 25s. 9d.; January, 26s. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports shipment business has again been active and the market is firm. Exports to November 14 totalled 76,060 barrels, compared with 77,869 barrels on the same date last year and 90,987 in 1934: finest Lofoten steam-refined non-freezing medicinal oil, 96s. to 97s. per barrel, c.i.f. London. Newfoundland non-freezing medicinal oil, about 130s. per barrel, ex store. British non-freezing medicinal oil is now quoted at 94s. to 100s. per barrel, c.i.f. London, duty free, while quotations from another home source are at higher figures.

COLCHICUM.—Dealers are quoting root at about 45s. per cwt. and seed at 11d. per lb., ex store.

COLOCYNTH.—Supplies are very short, with some fair white pulp now quoted dearer at 2s. 2d. per lb.

DAMIANA LEAVES.—Business on a small scale with spot quoted 8d. to 8½d. per lb., as to quantity.

DANDELION ROOT.—Some supplies of foreign root are available from 80s. to 85s. per cwt., as to quantity.

DERRIS ROOT.—Inquiry is increasing here and some shipment business is recorded. The quotation for basis 17 per cent. ether extract is now at 9d. to 9½d. per lb., c.i.f. Some spot root is offering at about 10½d., ex store.

ERGOT.—Business has again been of little importance this week, with buyers still waiting for offers of Russian from the source, but it has been difficult to get firm quotations; bids around 3s. to 3s. 3d., c.i.f., are reported to have been refused. Portuguese and/or Spanish is now quoted forward at 4s. 7d. to 4s. 8d., c.i.f., with some spot supplies mentioned at 4s. 9d. to 5s. per lb.

GAMBOGE.—Rather slow sale with some fine pipe quoted at £13 10s. per cwt., duty paid.

GENTIAN.—The recent firmer tone in this market is now in full evidence, with spot sellers asking up to 47s. 6d. per cwt.; shipment, when offered, firm from 45s. per cwt., c.i.f.

GINGER.—Fair business in some descriptions, with values about steady. West African, spot, 65s.; shipment, new crop, January-March, 38s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 85s. to 90s.; small grinding, 60s. to 62s. 6d. per cwt., in bags, ex store. Cochín, unbleached, fair washed, 80s. per cwt., spot.

GUM ACACIA.—This market remains quiet with values unchanged at recent low levels: spot, Kordofan cleaned sorts, 39s.; bleached, No. 1, 100s.; extra, 115s. per cwt.; shipment, Kordofan cleaned sorts, 36s. per cwt., c.i.f.

U.S.A. imports of gum acacia for the period January-August, 1936, totalled 5,730,000 lbs., valued at \$426,000, compared with 5,624,000 lbs. valued at \$496,000 in the corresponding period of 1935.

HENBANE.—Spot supplies are available in the region of 80s. per cwt., as to quantity.

HENNA.—Some good green Egyptian leaves are listed on spot at about 30s. per cwt., as to quantity.

HONEY.—Business is reported to have been restricted in volume, but values for all descriptions are keeping fully steady. Jamaican, dark manufacturing, 40s. up to 55s. for pale set. Californian, white clover, 52s. 6d., duty paid. Canadian, white clover, 50s., ex store. Mexican, 39s. per cwt., duty paid. No Russian here. The above prices are first hands for good quantities.

HYDRASTIS.—Small spot business only recorded, with values quite steady. Spot, 12s. 9d. to 13s.; shipment, 12s. 6d. per lb., c.i.f.

IPECACUANHA.—Further sales at increasing prices from the very limited stocks are reported, with 6s. 9d. and 6s. 10½d. paid. Good test root is now very firmly held, and with no shipment offers expected values seem likely to go still dearer. Matto Grosso, B.P. test, 7s. to 7s. 3d. per lb.; shipment, nominal.

KOLA NUTS.—There is a shortage of supplies on spot, with any West Indian halves that may be available worth 3½d. and African 2½d. per lb. Jamaica quotes 25s. 9d., c.i.f., for a good quantity.

LIQUORICE ROOT.—A limited spot demand, with natural root at about 12s. 6d. per cwt., as to quantity.

Shipments from Iraq during April-June, 1936, totalled 3,145,000 kilog. valued at \$57,000, compared with 1,547,000 kilog. valued at \$26,000 in the corresponding three months of 1935.

LOBELIA HERB.—The shipment quotation is keeping steady at 6½d., c.i.f., and the source reports crop supplies were only moderate. On spot there are sellers at 7d. per lb.

LYCOPodium.—Dealers are selling small parcels in the region of 4s. per lb., and slightly less for a quantity.

NUX VOMICA.—Routine business in Cochín at 13s. 6d. per cwt. Business reported done in Cochín, washed and garbled, at 10s. 6d. per cwt., c.i.f. London, in bulk quantities, while Calcutta is quoting at about 9s. 9d., c.i.f.

MANNA.—Supplies of selected flake in 1-lb. tins continue to be quoted at 3s. 9d. per lb., ex store.

MENTHOL.—A moderate sale continues on spot and values are about level on the week. K/S brands, 12s. 1½d. to 12s. 3d.; in bond, 10s. 9d. to 10s. 10½d.; parcels afloat, 10s. 6d., c.i.f., for which there has been a demand from the Continent. Japanese shippers quote December-January at 10s. and January-March at 9s. 10½d. per lb., c.i.f., with probable re-sellers of both positions at 9s. 9d., c.i.f. CHINESE, B.P., is offered on spot at about 12s., and finds a steady sale. No shipment offers of new crop. English synthetic is quoted unchanged from 7s. 6d. to 10s. 6d. per lb., as to quality and quantity.

U.S.A. imports of menthol, from all sources, in the period January-August, 1936, totalled 228,000 lb. valued at \$548,000, compared with 174,000 lbs. valued at \$407,000 during the corresponding period of 1935.

MERCURY.—The Spanish metal continues firm. About 2,000 bottles now landing here, all of which are sold. Limited spot stocks and shipment orders accepted, dispatch when possible ex Alicante stocks. Quoted at 68 dollars per bottle, f.o.b. Continent; £14 2s., c.i.f., London; spot, in small lots, £14 5s. per bottle, ex store.

OPIMUM.—Average small business on spot, with good re-export business reported: values steady: spot, Turkish, 1s. 2½d. per unit, landed and duty paid. Persian, 1s. per unit, in bond.

ORANGE PEEL.—A little inquiry on spot with thin cut quoted at about 11d. per lb., ex store.

ORRIS ROOT.—Supplies of Florentine are quoted unchanged on spot at about 45s. per cwt., ex store.

PEPPER.—Quoted values are fractionally higher this week, while business has remained rather quiet. Lampong, in bond, 2½d.; shipment, November-December, 2½d.; January-March, 2½d.; March-May, 2½d.; April-June, 2½d., c.i.f. Tellicherry, spot, 4½d.; November-December, 34s., c.i.f. Aleppy, spot, 4½d.; shipment, November-December, 34s., c.i.f. White Muntok, in bond, 5d.; shipment, November-December, 47½d.; January-March, 4½d. per lb., c.i.f.

PIMENTO.—Business rather quiet; values keeping steady: spot, 8½d. per lb.; shipment, November-December, 76s. per cwt., c.i.f.

QUILLATA BARK.—Supplies of whole bark range from 25s. to 27s. 6d., and crushed about 34s. per cwt., as to quantity.

RHUBARB.—Fair business, mostly in Rough Round, at a slight advance, but still quoted below cost of replacement. Spot, Shensi, 4s. to 4s. 3d.; pickings, 2s. 3d. to 2s. 6d. per lb. Rough Round, all pinky, from 1s. 7d., and three-quarters pinky, 1s. 6d. per lb., ex store; shipment, ordinary quality, 1s. 4d. per lb., c.i.f.

RUBBER.—A further slight advance in values is recorded, moderate business, market fully steady. Standard ribbed smoked sheet, spot, 8½d.; December, 8½d.; January-March, 8½d.; April-June, 8½d.; July-September, 8½d. per lb.

SAFFRON.—Market is almost bare of supplies, with prices in the region of 80s. per lb.

SARSAPARILLA.—Moderate business, with spot values about steady: spot, Jamaican grey, 1s. 2d.; native, mixed colours, 11d. to 1s. per lb., as to quantity, spot.

SEEDS.—ANISE.—Bulgarian, 30s., spot, duty paid. CANARY.—Spot, Mazagan, 30s. 6d.; Turkish, 27s. 6d.; Plate, 26s.; Spanish, 70s.; all duty paid. CARAWAY.—Dutch, 36s., duty paid, 31s. quoted f.o.b. Holland. CORIANDER.—Spot: stocks are small, 13s. 6d. quoted, duty paid; for shipment, 10s. 9d., c.i.f., quoted. CUMIN.—Morocco on spot offered at 32s. 6d., duty paid. FENNEL.—Indian is 32s. 6d., spot. FENUGREEK.—Morocco, on spot, 14s. duty paid. MUSTARD.—English, 22s. to 32s. 6d. per cwt., according to quality.

SENEGA.—A modest business is recorded, market steady. Spot, 1s. 6½d. to 1s. 6½d.; shipment for bulk quantities is quoted at 1s. 6d. per lb., c.i.f.

SENNA.—Good green Tinnevely leaves offer on the spot: No. 1, at 5½d.; No. 2, at 4d.; No. 3, at 2½d. per lb., with parcels of off-coloured leaves available at slightly cheaper rates. Good quality, hand-picked Tinnevely pods are meeting a fair demand at 5½d. per lb. for good palish down to 3½d. for darkish quality. Alexandrian.—The market is practically bare of supplies of good green bold hand-picked pods, and the bulk of the stocks on offer consist of medium and poorish grades at 1s. 6d. to 2s. 9d. per lb., ex wharf, London. Manufacturing pods are in restricted supply at 4d. to 4½d. per lb.

SHELLAC.—Slightly better business, market steady. Spot, standard TN orange, 50s. to 55s.; fine orange, 62s. 6d. to 125s.; pure button, 60s. to 65s. per cwt., spot. For delivery, TN, December, 51s.; March, 52s. 6d. For arrival, TN, November-December, 49s. per cwt., c.i.f.

SLIPPERY ELM BARK.—Not much business being done, values unchanged. Spot, wired bundles, 1s. 2d.; grinding quality, about 7d. per lb., ex store.

SQUILL.—The prices quoted on spot for brownish to fair white range from 25s. to 30s. per cwt., ex store.

STROPHANTHUS SEED.—The demand on spot remains poor, with new crop seed quoted at about 2s. 10½d. to 3s. per lb., as to quantity.

TONKA BEANS.—Spot supplies of fair frosted Para beans are available at 3s. 4½d. to 3s. 8d. per lb., and Angostura at 8s. to 8s. 3d. per lb.

TRAGACANTH.—The position as regards fresh supplies for this market is as reported last week. Stocks, particularly of the white grades, are now practically exhausted. Up to £50 per cwt. is reported to have been paid for druggist fine white ribbon and for anything now available £55 is quoted at the moment. In the textile grades, which are also in restricted supply, business has been rather quieter, but values are fully maintained at their recent levels.

U.S.A. imports of tragacanth for the period January-August, 1936, totalled 1,368,000 lbs., valued at \$329,000, compared with 1,955,000 lbs. valued at \$407,000 in the corresponding period of 1935.

VALERIAN ROOT.—Dealers are offering small spot parcels at about 35s. per cwt., ex store.

WAX.—BEES'.—More interest on spot and supplies are becoming restricted in selection. Calcutta, bleached, spot, 135s.; shipment, November-December, 128s., c.i.f. Abyssinian, spot, 122s. 6d.; in bond, 114s.; shipment, 114s., c.i.f. Benguella, spot, 122s. 6d.; shipment, 108s., c.i.f. Conakry, no spot available; shipment, 109s. 6d. per cwt., c.i.f. Dar-es-Salaam, spot, 122s. 6d.; shipment, steady, at 119s. per cwt., c.i.f. CARNAUBA.—Rather quiet on spot; more business forward on slightly easier market. Fatty grey, spot, 158s., afloat, 151s.; shipment, November-December, 146s., c.i.f. Chalky grey, spot, 157s. 6d.; afloat, 150s.; shipment, November-December, 146s., c.i.f. Primeira, spot, good quality, 215s.; f.a.q., 205s.; afloat, 205s.; shipment, November-December, 190s., c.i.f. Madiana, spot, 205s.; shipment, 192s. 6d. per cwt., c.i.f.

Essential Oils, etc.

BUSINESS has not been quite so good this week, but some items continue in steady demand. Bergamot and other Sicilian oils are all quoted dearer, but business is slow. Citronella oils have maintained their recent improvement. Palmarosa is dearer forward and firm. Japanese peppermint has sold well on spot and is steadier forward.

ALMOND.—With the slightly cheaper shipment offers dealers' spot prices for imported oil are barely maintained: English-made, cwt. lots, 3s. 5d.; smaller parcels, up to 3s. 7d. per lb.; foreign, cwt. lots, 3s. 3d.; smaller parcels, 3s. 6d. per lb. French, bitter, 7s. per lb.

ANISE (STAR).—Business of modest account, but spot values are steady. No shipment offers from the source: spot, leads, 3s. 6d.; tins, 3s. 1½d.; drums, 2s. 10½d. per lb., ex store; shipment, resellers, tins, October-November, 2s. 7½d. per lb., c.i.f.

BAY.—Spot values are steady, business on small scale only: 49 to 50 per cent., 4s. 9d. to 4s. 10d.; 59 to 60 per cent., 5s. to 5s. 1½d. per lb., as to quantity.

BERGAMOT.—Following on the sharply firmer conditions recorded last week, the shipment market continues strong and offers are restricted. A quotation of 10s. 9d., c.i.f., was received a few days ago, and since then business is reported to have been done up to 11s. 6d., c.i.f., and it now seems doubtful if the best brands could be booked even at this figure. The position at the moment is that, owing to the advances in values, there is little actual desire to buy, and at the same time, shippers are either unwilling or are not in a position to quote, indicating the market as very firm. Any good quality oil on spot would be quoted from 11s. 6d. per lb., but here again business has been negligible.

U.S.A. imports of bergamot during the period January-August, 1936, totalled 84,000 lb. valued at \$130,000, compared with 62,000 lb. valued at \$81,000 in the corresponding period of 1935.

BOIS DE ROSE.—Values are keeping steady, with rather more inquiry being received. Brazilian, 5s. to 5s. 2d. per lb., as to quantity; shipment, 4s. 9d., c.i.f.

CAJUPUT.—Remains rather quiet on spot, market steady: B.P., 1s. 10d. to 2s. 3d. per lb., as to quantity.

CANANGA.—The cheaper shipment offers recorded last week are still available in the region of 6s. 1½d. per lb., c.i.f.: spot quotations range from 7s. to 7s. 6d. per lb., as to quantity and seller.

CARAWAY.—A moderate spot business only; shipment market dull: Dutch rectified, 7s. 3d.; crude, 6s. 9d. per lb., landed and duty paid.

CASSIA.—The shipment market is quite steady, with one or two inquiries dealt with on the basis of 2s. 7½d. per lb., c.i.f. The spot value for good quality oil is about 3s. 1d., with inferior material at cheaper prices.

CINNAMON LEAF.—Last week's firmer market is maintained; small business being done: Ceylon, spot, from 3s. 3d. and for shipment, 2s. 11d. per lb., c.i.f.

CITRONELLA.—A fair amount of interest continues in these oils, with Ceylon again quoted dearer and Java prices were barely maintained for shipment, but recovered at the close. Ceylon, spot, drums, 1s. 0½d. to 1s. 1d.; smaller parcels, up to 1s. 4d.; shipment, drums, 11½d. per lb., c.i.f. Java, in bond, drums, 1s. 4½d.; smaller parcels, up to 1s. 9d.; shipment, drums, 1s. 5½d. per lb., c.i.f.

CLOVE.—Madagascar is firm on spot and not offered for shipment. Zanzibar bud oil is steady. Business of small account: Madagascar, spot, drums, 3s. 9d.; smaller packings, up to 4s. per lb.; shipment, nominal. English-made oil, firm from 4s. 9d. per lb. Zanzibar bud oil, 4s. per lb., in drums.

EUCALYPTUS.—The recent firm tone is fully maintained, with spot values unchanged and supplies limited: Australian, 70 to 75 per cent., 1s. 6d.; 80 to 85 per cent., 1s. 7d. per lb., landed, if available; higher prices for small lots on spot. Spanish, 70 to 75 per cent. 1s. 7d. per lb., ex store. Australian, for January shipment, 70 to 75 per cent., 1s. 3½d., in cases and 1s. 3d. per lb., in drums, c.i.f.

GERANIUM.—Very little interest in this market, with quotations irregular, according to source and quality: Bourbon, spot, 17s. 3d. to 19s. 6d.; shipment, 17s. to 17s. 6d., c.i.f. Algerian, spot, 17s. to 19s.; shipment, 15s. 3d. to 15s. 6d. per lb., c.i.f. Belgian Congo oil at very competitive figures.

U.S.A. imports of geranium (all descriptions) in the period January-August, 1936, totalled 67,000 lb. valued at \$309,000, compared with 67,000 lb. valued at \$307,000 during the corresponding period of 1935.

GRAPE-FRUIT.—A few small inquiries on spot, with Californian oil quoted from 10s. 9d. to 12s. per lb., as to quantity. Florida and South African oil not available.

HO (SHU).—The recent slightly firmer values are being maintained: spot, quoted from 1s. 7d. to 1s. 10d. per lb., as to quality and quantity.

JUNIPER BERRY.—Nothing moving except the usual small spot orders. Quoted from 2s. 10d. to 3s. 3d. per lb., as to quantity.

LAVENDER.—A modest amount of spot business is recorded, with quotations for French, 38 to 40 per cent., ranging from 14s. 6d. to

17s. 3d. per lb., as to source, with blended oils at rather cheaper figures. Lavandin, according to quality and quantity, is quoted from 6s. 3d. to 8s. 3d. per lb.

U.S.A. imports of lavender, all descriptions, during the period January-August 1936, totalled 117,000 lb. valued at \$106,000, compared with 105,000 lb. valued at \$285,000, in the corresponding period of 1935.

LEMON.—Following on the strong markets of the past three weeks the reports from the source show the position to be fully maintained. Importers have received but few firm offers of any bulk quantity of Sicilian hand-pressed oil, and the value has been indicated at 9s. 3d. to 9s. 6d., c.i.f. While the source continues to indicate they expect current values to be at least maintained, and possibly increased, buyers are hesitating to work on the offers coming to hand. While realising the strong tone of the market there is a feeling that values are being rushed up too quickly. No Californian cold-pressed here in first hands. The distilled, regular quality, continues to be quoted at the recent advance to 4s. 8d. per lb., and in limited supply. Sicilian machine-made oil is quoted at about 8s. 6d. per lb., c.i.f.

U.S.A. imports of lemon, all descriptions, during the period January-August, 1936, totalled 92,000 lb. valued at \$103,000, compared with 97,000 lb. valued at \$90,000, in the corresponding period of 1935.

LEMONGRASS.—Some further shipment business recorded and the quotation is again better and now firm at 1s. 6d., November-December, c.i.f. The spot value remains at 1s. 9d. to 2s. per lb., as to quantity. The January shipment offer is now at 1s. 6½d., c.i.f.

MANDARIN.—A few shipment offers have been received this week and they range from 15s. 6d. to 18s. 3d. per lb., c.i.f., each successive quotation showing an advance.

NUTMEG.—Some few spot orders transacted with American oil at about 5s. 3d. to 5s. 4d. per lb., as to quantity.

ORANGE.—Sicilian sweet oil has been quoted from the source up to as much as 14s. 3d., c.i.f., and bitter oil at about 10s., c.i.f., with no interest taken. French Guinea oil is offering freely at rather competitive prices on spot, but the demand seems slow; drums, 2s. 10d. to 2s. 11d., with smaller packages up to 3s. 4d. per lb. Some oil of doubtful quality at cheaper figures. Re-sellers quoting new crop at about 2s. 2d., c.i.f. No offers from the source. East African bitter oil is available on spot at about 8s. to 8s. 3d. per lb. Californian oil has been dull; spot, one case, 4s.; two or more cases, 3s. 10d.; small drums, 3s. 9d.; large drums, 3s. 8½d. per lb., ex store.

U.S.A. imports of orange, all descriptions, during the period January-August, 1936, totalled 135,000 lb. valued at \$137,000, compared with 110,000 lb. valued at \$105,000, in the corresponding period of 1935.

PALMAROSA.—The shipment market for this product is fully steady at 5s. 9d. per lb., c.i.f. Spot is unchanged so far at 5s. 10½d. to 6s. per lb., as to quantity.

PATCHOULI.—Not much business moving, but the market is steady. Spot, Singapore oil, 16s. 3d. to 16s. 6d. per lb., as to quantity.

PEPPERMINT.—The JAPANESE oil continues in steady demand on spot and forward, the October-December position tends to become firmer. On spot, 5s. per lb. paid; near afloat parcels wanted with 4s. 7½d., c.i.f. bid with sellers of distant afloat quoting that figure. Japanese shippers are not quoting October-December, but offer January-February at 4s. 2d. to 4s. 3d., c.i.f., as to seller. Re-sellers of October-December at 4s. 3d., with business done at 4s. 2d., c.i.f. CHINESE oil on spot sells quietly at about 5s. per lb. No offers of new crop for shipment, shippers stating they are not interested in current prices. The American natural new crop oil is quoted for shipment from 2 dollars 10 to 2 dollars 25 cents per lb., in drums, c.i.f., the price varying as to brand.

U.S.A. exports of peppermint oil during the period January-August totalled 276,000 lb. valued at \$601,000, compared with 178,000 lb. valued at \$519,000 in the corresponding period of 1935.

PETITGRAIN.—A moderate amount of small business; market steady. Spot, cases, 3s. 6d. up to 3s. 9d. for smaller packings; shipment, 3s. 3d. per lb., c.i.f., in cases.

ROSEMARY.—Some dealers' quotations for Spanish oil are at lower figures with spot offers now ranging from about 2s. 4d. to 2s. 7½d. per lb., as to quality and quantity.

SANDALWOOD.—Genuine East Indian Mysore, 19s. per lb., in one-case lots on spot; practically no second-hand offerings. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, business done at 7s. 3d. per lb. Australian oil continues steady: five cases, 14s. 6d.; one case, 14s. 9d.; 7-lb. tins, 15s. 3d. per lb.

SASSAFRAS.—Not much business of importance moving. Spot, natural oil, 3s. 6d. to 3s. 9d. per lb., as to quantity. Artificial oils at lower figures.

SPEARMINT.—The demand is restricted in volume. Spot, 8s. 9d. to 8s. 10½d.; shipment, about 8s. 3d. per lb., c.i.f.

SPIKE.—A few shipment offers of old crop oil in limited quantities have been received from Spain this week, and the value is being mentioned up to as much as 5s. 3d., c.i.f. On spot there are sellers of a good standard quality oil at 5s. per lb. for a fair quantity.

WORMSEED.—The U.S.P. quality oil is maintained at former values, business slow. Spot, about 9s. to 9s. 3d.; shipment, 8s. 9d. per lb., c.i.f.

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

P.A.T.A. Council Election

SIR,—The Thames Valley Pharmacists' Association has no hesitation in asking voters at the forthcoming P.A.T.A. election to give their support again to Mr. W. S. Howells. He has served the trade well during the three years he has been on the Council, and if elected he will serve equally well during the next three years. He has no pharmaceutical manufacturing or wholesale interests; he is a retail chemist first and last.

Yours faithfully,
F. G. DAVIS, President;
C. B. HARRISON, Hon. Secretary.

East Sheen, S.W.14.

Chemists and Air-Raid Precautions

SIR,—My advice to fellow chemists interested in A.R.P. work is as follows:—By all means attend classes (and gain certificate in A.R.P.) either from St. J.A.B. lectures or Home Office lecturers if and when available. But (a) concentrate on enrolment in "gas detection" services. (b) Watch your commitments. Our friends the enemy . . . are remarkably nice when requiring something for nothing. Otherwise you may find yourselves in a decontamination squad or undresser at a first-aid post—both very useful and essential services, but in your case a waste of material which might be more profitably employed.—Yours faithfully,

REGINALD ELLIOTT TWELVES, M.P.S.,

A.R.P. Staff Officer (St. J.A.B.) for Derbyshire.

Newbold Chesterfield.

First-Aid Cases

SIR,—The article dealing with "First-Aid Cases for National and Domestic Emergencies" (*C. & D.*, November 14, p. 558) commences with a statement that "the view has long been held by many manufacturers and wholesalers that the majority of 'private' chemists fail to do justice to a most profitable department." I imagine this is not entirely due to a spirit of caution, but is largely attributable to manufacturers themselves. One of the best opportunities the retail chemist has had for establishing a trade in first-aid dressings was when the Regulations for the Home Office cabinets were issued. What happened? Manufacturers' representatives took orders from chemists for these outfits, cabinets and refills were put into stock and remained on the shelves, because the same manufacturers supplied factories and works direct. In the same way first-aid associations, sports clubs and the other bodies mentioned in the article take up the sale of the equipment required for their activities, and the various items are listed in their publications. These are obtained from the manufacturer. It is not surprising that the retail chemist finds he is handicapped at the start when he tries to develop this business, although logically he should be the best person to distribute these goods to the public.—Faithfully yours,

FUSTAID (16/11).

Overseas Situations

SIR,—An advertisement in the *C. & D.* Supplement under the heading of "Colonial, Indian and Foreign" impels this letter. I suggest that it would be best for anyone going overseas to find out more about local conditions, salaries paid, cost of living, hours of business, etc. In towns the hours may be 8.30 a.m. to 6.30 p.m., thus leaving very little time for sport except on Saturday afternoons. Sunday opening is still in vogue although attempts have been made to curtail it; and as in one town I know there are six shops open every Sunday morning for two hours, the time left for sport is very short indeed. Probably an inquiry to the local secretary of the chemists' association or society would be the best.

I am, etc.,
BROTHER PILL (16/11).

English Lavender

SIR,—There has been considerable mention in the daily and technical Press, just lately, drawing attention to the cultivation of lavender in Norfolk, and the statement is made that the cultivation is "on a scale not hitherto reached during the present

century." We should like to correct this bold and rather amazing statement, and inform your readers who may have read the articles that, as most people know, lavender has been grown in England on a commercial scale for a very great many years. In days gone by there were large acreages grown in the Mitcham district. We ourselves, not so very long ago and well within the present century, have had thirty acres and more under cultivation in one season, and for many years running our cultivation never went below ten acres. There used to be a good demand for English lavender oil. We have sold the oil as low as 17s. per lb., but, owing to the great increase in wages, the price has risen to its present level. At one time, soon after the war, it was as high as 250s. per lb. Probably that high price was the undoing of the industry, as it forced perfumers to use cheaper oils. To-day most of the lavender perfume is made from French lavender, but we still cultivate a few acres at Long Melford, and to talk of the acreage in Norfolk as being on a scale not hitherto reached during the present century is ridiculous.—Yours faithfully,

FOR STAFFORD ALLEN & SONS, LTD.,

London, E.C.2.

K. C. ALLEN, Director.

Chemists' Friends Scheme

SIR,—It was with regret we saw in the report of the National Pharmaceutical Union, published in your paper of November 7 (p. 515), a reference to us made under the heading "Chemists' Friends Committee." This reference appears to have given the impression that we had supplied Chemists' Friends goods to dealers other than chemists. We have not done so. In addition, we have since heard from the National Pharmaceutical Union that they had no desire to give such impression. We shall be glad if you will publish this letter in order that the true facts may be known, as we are operating the Chemists' Friends scheme as wholesalers to the very best of our ability.

Yours truly,

JAMES WOOLLEY, SONS & CO., LTD.,
S. WATSON, Managing Director.

Manchester.

Federation of Branches

SIR,—Mr. Eirwyn Owen (*C. & D.*, November 14, p. 570) says that a federation of branches would have more weight with the Council of the Pharmaceutical Society as it would represent a larger percentage of the electorate. But he also refers to the meeting of branch secretaries at the Conference, and there are the delegates' meetings. The resolutions they put forward have been, or should have been, fully discussed at the local branches, and express the opinion of the members as a whole. What better representation would be afforded by a federation which would only duplicate the present system? And if the Council can ignore a resolution passed by the body of branch delegates, an action so ably commented on by Mr. F. Newby (p. 547), is it probable they would take any more notice of a federation?—Yours truly,

DELEGANS (17/11).

Old Age

SIR,—I am glad that Sir Humphry Rolleston, in his paper on "Disorders of Old Age," mentioned in your issue of November 7 (p. 525), came to the conclusion that it should be estimated on biological or physiological lines; in other words, that "a man is as old as his arteries." The subject has an interest for every reader of your paper. When we are young, old age is regarded as a condition of quiescence, of the decline of physical strength, a period when perhaps our wits will not be so nimble as when we were young. This may be so with many, but with others the declining years are the happiest and best of life. A man knows by then what he can or cannot eat and drink; what exertion he can make; how much bed he needs and other matters pertaining to his physical or biological condition. Happy is he if, in addition, his brain is active, his mind is progressive and dominated by the philosophical outlook on life.—I am, etc.,

OBSERVATOR (18/11).

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

R. & W. (13/88).—EYELASH COSMETIC.—The following formula should serve as a basis for experiments:—

Soap flakes	...	...	...	5
Water	...	...	...	15
Beeswax	...	...	...	5
Spermaceti	...	...	...	5
Burnt umber	...	...	...	a sufficiency.

Intimately mix the burnt umber (about five parts) in the water, stir in the soap flakes and heat until dissolved. Melt the waxes and pour into soap solution, stir until emulsified. Triethanolamine stearate could be used if preferred, and a formula would be:—

Triethanolamine stearate	...	...	...	5
Water	...	...	...	5
Beeswax	...	...	...	4
Spermaceti	...	...	...	4
Burnt umber	...	...	...	5

A. B. R. (6/84).—BENZYL ALCOHOL IN COUGH MIXTURES.—Saligenin (hydroxy-benzyl alcohol) acts as a local anæsthetic, being about twice as effective as benzyl alcohol and about thirty times less toxic than novocain. Both saligenin and benzyl alcohol possess antiseptic properties, and in 0.5 per cent. solutions prevent the growth of streptococci. The latter drug has been found effective in excessive intestinal peristalsis, pylorospasm, and other conditions, including hiccup. When administered in cases of whooping-cough the results are said to have been gratifying. It does not shorten the disease, but acts as a palliative, reducing the paroxysms both in number and violence. The dose varies from five to forty drops in water, three or four times a day, according to age and severity of the disease. The addition of 1 to 5 per cent. of benzaldehyde made the mixture more effective.

E. D. (11/95).—SURGERY SPRAY.—As a disinfectant spray for a dental surgery we suggest you use one of the following formulas:—

I				
Pine needle oil,	...	...	...	...
Formalin...	...	...	of each	2 oz.
Acetone	...	...	...	6 oz.
Isopropyl alcohol	...	...	...	to 20 oz.

For use as a spray, 1 oz. is mixed with a pint of water.

II				
Formaldehyde solution...	...	...	...	6 gm.
Lemon oil,	...	...	...	...
Eucalyptus oil	...	...	of each	3 gm.
Alcohol (95 per cent.)	...	...	...	to 40 gm.

This can be used as a spray or alternatively a small quantity evaporated by means of an electric bulb, or over a stove.

J. C. (13/87).—AQUEOUS TINCTURES.—These can be made by percolating the finely powdered drug with a menstruum consisting of 2½ volumes of strong acetic acid, 25 volumes of glycerin, and distilled water to 100 volumes. It is better to use, instead of the drug, an equivalent of the fluid extract, evaporating to get rid of the spirit. Generally one-half of the extract taken has to be dissipated. Evaporation should be done at a low heat. Dissolve the residue in the aceto-glycerin menstruum, set the mixture aside for a few days to deposit, and filter. The following tinctures are best made from extracts—belladonna, hyoscyamus and nux vomica. You will find further information in "Pharmaceutical Formulas," Volume 1, pp. 603-638.

C. D. (Brussels) (28/84).—HAIR FIXATIVE CREAM.—The following formula will make a preparation such as you desire:—

Lanolin	...	...	...	30
Glyceryl monostearate	...	...	...	5
Stearic acid	...	...	...	2
Beeswax	...	...	...	2
Mineral oil	...	...	...	80
Water	...	...	...	60
Triethanolamine...	...	...	...	1

If high viscosity oil is used, the amount of beeswax can be reduced to half. If preferred, the amount of oil can be mineral 60, peanut 20. It is advisable to use a homogeniser in making this preparation.

S. E. B. (16/11).—FEEDING AN ORPHAN FOAL.—These animals are difficult to rear by hand as they require so much attention. They may be fed on cow's milk diluted with water (one part of water to two of milk) nicely sweetened with sugar of milk. The secret of successful rearing is to feed small quantities and at frequent intervals. Try to get the foal to drink from a basin or small pail as soon as possible. A pint of diluted milk, always from the same cow if possible, every two hours night and day is sufficient for the first month. After the first month the intervals between meals may be gradually increased and the quantity of water added to the milk decreased, until at three months old it may be presented undiluted. At all times the milk must be fed at 100° F. At about three months the foal should be taught to eat a small ration of extra quality bruised oats and some hay. Try to find some companion for the foal, such as an already weaned foal or a donkey or calf, when exercised or turned out to grass.

B. F. L. (Holland) (13/82).—MANDELIC ACID TREATMENT.—The normal dose of mandelic acid is 45 grains (3 gm.) four times a day, and the equivalent of this in the form of sodium mandelate is 50 grains (3.43 gm.). Sodium mandelate is sometimes dispensed in tablets, each containing 3.43 gm., but is more conveniently given in solution. The following mixtures have been found effective:—

I				
Ammonium Chloride Mixture				
Ammon. chlor.	...	...	...	℥j.
Ext. glycyrrh. liq.	...	...	...	℥iv.
Aq.	...	...	...	ad. 5 viij.

One tablespoonful in water, four times a day, before food.

II				
Sodium Mandelate Mixture				
Sodium mandelate	...	...	...	℥iss.
Syr. aurant	...	...	...	℥iss.
Aq.	...	...	...	ad. 5 viij.

One tablespoonful in water, four times a day, after food.

The reaction of the urine is tested regularly during the treatment by adding five drops of a buffered methyl-red solution to 5 c.c. of urine in a test tube. The colour is bright pink at pH 5.3, but is orange or yellow if the reaction is too alkaline. The indicator solution can be purchased from any reliable chemical supply house. The use of ammonium mandelate obviates the separate administration of ammonium chloride. It is now supplied in palatable mixtures by several makers. If the urine is not sufficiently acid 10 grains of ammonium chloride may be given three or four times a day until the reaction is corrected.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," November 20, 1886

Dispensing Tested

The Paddington chemists come out of the crucible of their public analyst very satisfactorily. Twenty-two of them have been tested by prescriptions sent to them in the ordinary course of business, the medicines supplied have been analysed, and in no one case has any material inaccuracy been discovered. Mr. Alfred W. Stokes, the public analyst, after his investigations, remarks:—"Naturally one would expect from a class of traders such as chemists and druggists, who are not allowed to trade until they have passed certain examinations as to their fitness, a higher standard than is found elsewhere. It is very satisfactory to find this expectation borne out by facts." It would appear from this remark that Mr. Stokes limited his inquiry on this occasion to legitimate chemists and druggists. This is a piece of justice which chemists may fairly demand for the future. . . . Mr. Stokes has somewhat gone out of his way to point out a danger in dispensing of the highest public importance. As he hints, there are no means whereby the medicines dispensed by medical men can be tested.

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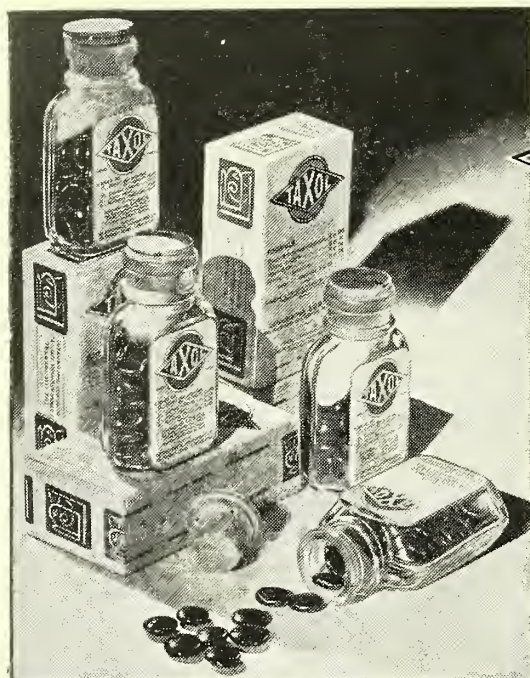
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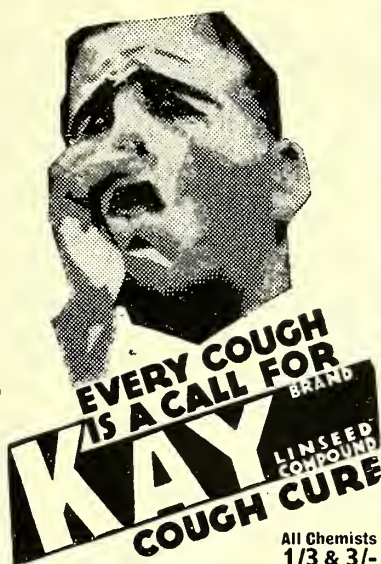
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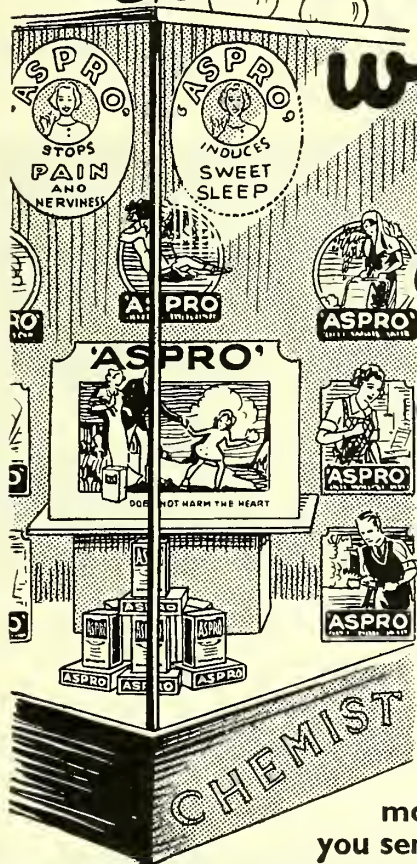
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When you put 'ASPRO' advertising matter in your window you attract customers to your shop. Your general sales benefit. Remember, large space 'ASPRO' Advertisements are carried several times monthly by over three hundred papers, with a total circulation of over 32,000,000. You get your share in the sales activity created by this advertising when you show 'ASPRO' advertising material — just as if you spent a proportionate amount of money on the advertising yourself. We suggest you send for an 'ASPRO' display to-day. Remember,

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use these
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ENVELOPES
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Kristal Envelopes
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Grease proof
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BONUS ON 5's & 10's

One gross order ... Bonus 1 dozen packets
Half gross order ... Bonus ½ dozen packets
Half gross of either size is the minimum order
accepted for bonus purposes

BONUS ON 27's

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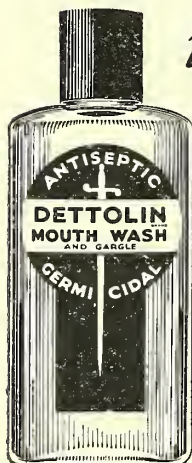
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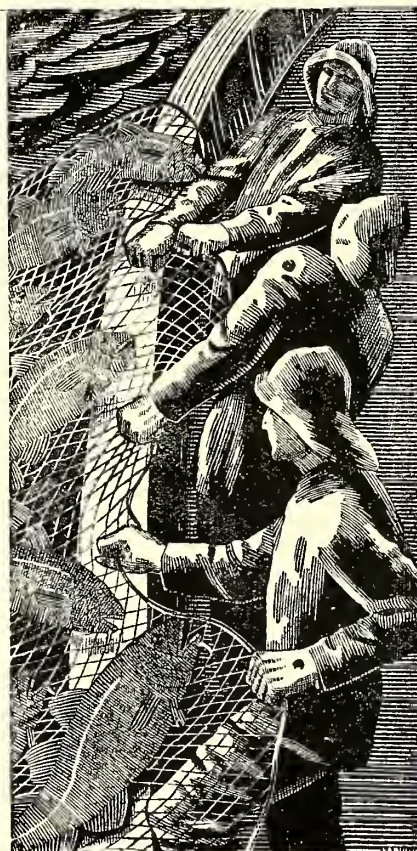
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**JACKSON'S
FEBRIFUGE**

for Quick Sales and **GOOD PROFITS**

**JACKSON'S FEBRIFUGE 1/3, 3/-
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Also other famous specialities
**DRAWING OINTMENT, CAMODENE SOAP &
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Introducing...
PANOPSIN
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Panopsin (pancreatic amylopsin) is standardised to convert 500 times its weight of starch into sugars suitable for immediate absorption and, at the same time, completely digest 90 times its weight of protein. Panopsin thus actually "digests" and is a valuable therapeutic aid in defective digestion of nervous origin.

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1936 ADDENDUM

TO B.P. 1932

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MEDICINAL COD LIVER OIL

NOW - *and be safe*



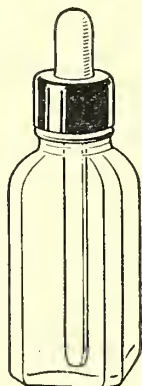
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SUPER QUALITY.

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SUPPLIED WITH OR WITHOUT BOXES.

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THE VISCOSE DEVELOPMENT CO. LTD. + BROMLEY + KENT

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Dispensing Bottles

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CARTONS OF EITHER 3 or 6 doz. BOTTLES
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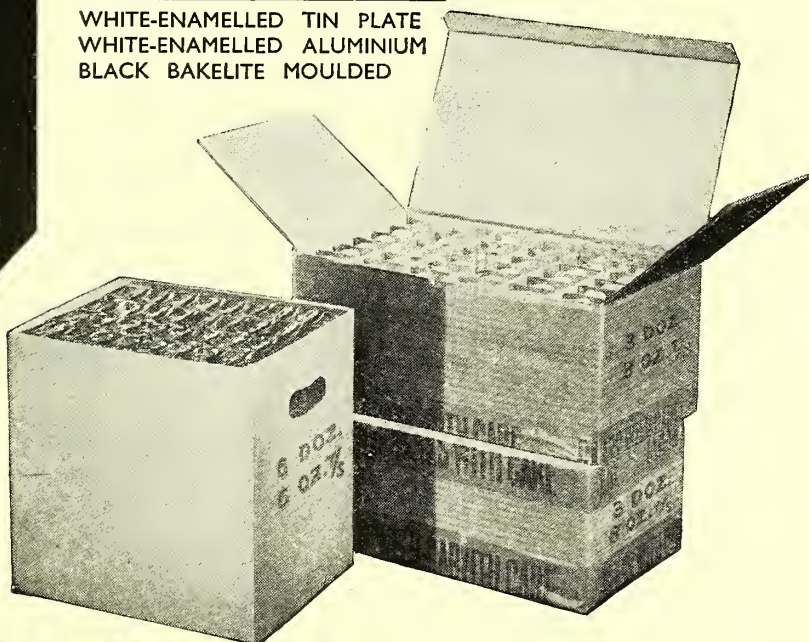
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Prepared in our own laboratories under
strict scientific control, and, whenever
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Wholesale and Export Dept.

BOOTS PURE DRUG CO. LTD.
NOTTINGHAM

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

NOVEMBER 21, 1936

28 ESSEX STREET, LONDON, W.C.2

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ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

BUSINESSES WANTED and for **DISPOSAL, PREMISES TO LET and FOR SALE, PREMISES WANTED, PARTNERSHIPS, GOODS for SALE and AGENCIES**—6/- for 50 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

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SITUATIONS WANTED—2/- for 18 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

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We make no charge to purchasers, and invite intending buyers to communicate with us, stating their requirements

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2.—**GREENWICH (DEATH VACANCY)**.—Main Road Business for immediate disposal; takings about £18 per week; good profits; comfortable living accommodation; attractive stock and fixtures; rent only £60 per annum; scope; price £300 all at or near offer.

3.—**HANWELL (NEAR)**.—Light Retail Business; recently established; rapidly increasing turnover, present rate £40 per week plus N.H.I. Dispensing; good profits; main road position; stock worth about £500; very nice fixtures; reasonable rental; long lease; price all at £1,250, or valuation terms entertained.

4.—**STREATHAM (NEAR)**.—Good Middle-class Business situate in prominent position; takings last year £1,770; good profits; handsomely-fitted spacious shop; rent £110 per annum; sublet £84 per annum; stock and fixtures worth about £825; price, one year's net profit for the lease and goodwill, plus stock and fixtures at valuation.

5.—**Stock and Fixtures for sale for removal purposes**; can be viewed at 218 Ivydale Road, Nunhead, S.E.15; all offers to be made to this office; must be sold forthwith.

6.—**TOOTING**.—Main-road Business with increasing turnover, present rate £20 per week under lady management; beautifully-fitted double-fronted shop, well stocked; advantageous sublets; valuable lease; price all at £600 or valuation terms entertained.

7.—**MAIDA VALE (NEAR)**.—Main-road Business, at present run under management; heavy Panel (over £300 per annum); old established; takings last year £1,871; chartered accountants' figures; net profit to managing proprietor £500 per annum; fixtures worth £250, stock £450; inclusive price £1,150 all at, or alternatively £450 for the lease and goodwill, plus valuation of stock and fixtures.

8.—**BATTERSEA (DEATH VACANCY)**.—Well-established Prescribing Business with N.H.I. and Photographic; present rate of takings £15 per week under management; scope for increase; net profit £5-£6 per week; new lease on lock-up shop at £65 per annum; valuable stock and fixtures; inclusive price £450 all at or near offer.

9.—**NORTH KENSINGTON**.—Well-established Working-class Business with sub-Post Office attached; Post Office remuneration nearly £500 per annum; long valuable lease; profit rentals; Pharmacy turnover last year £900; scope for increase; price about £1,500 all at.

10.—**LEYTONSTONE (NEAR)**.—Middle and Working-class Business situate in thickly populated area; increasing turnover, last year being £1,356; net profit for income tax £343; very nice living accommodation over; valuable stock and fixtures; price all at £750 or near offer.

11.—**BATH**.—General Light Retail Business with increasing turnover; very old established; takings average, present rate, £17-£18 per week;

net profit about £4 per week; main road shop; rent only £30 per annum at present; price £550 all at or £230 for lease, goodwill and fixtures plus stock at valuation; ill-health reason for disposal.

12.—**HOVE**.—Light Family Retail Business with Photographic; established nearly 100 years; takings last year £800; net profit £280; living accommodation over; rent £70; price £800 all at or valuation terms entertained; stock and fixtures worth about £530.

13.—**HEREFORDSHIRE**.—Country Retail Business with Agricultural, Photographic and small Veterinary connection; established about 100 years; takings for last three years average approximately £2,450 per annum; comfortable living accommodation over; stock worth £900, fixtures about £400; rent £60 per annum; price £1,700 all at or valuation terms entertained.

14.—**ESSEX (NOT FAR FROM COLCHESTER)**.—Drug Store for disposal; well established; returns under lady management last year £1,042; good profits; valuable stock and fixtures; rent £50 per annum; sublet £52 per annum; rates about £10 per annum; price all at £300, part of which can remain to approved purchaser.

15.—**LICESTER**.—Branch Business for sale; takings about £1,300 per annum; net profit over £300 per annum; attractive double-fronted shop, very well fitted and nicely stocked; living accommodation over with bathroom, all in good state of repair; a lease will be granted or premises can be purchased; price of business £800 all at.

16.—**WILTSHIRE**.—Good Middle-class Business, well situate; returns about £25 per week; excellent profits; rent £85 per annum; stock worth about £450; price all at £625.

17.—**SOUTH WALES**.—General Business for sale with Pharmacy, Photo., Seeds, Wines, Spirits, etc.; old established and in present hands 20 years; takings last year £2,730; gross profit 37 per cent.; good living accommodation available; fixtures, fittings, etc., worth about £300; good, clean, saleable stock worth about £900; net profit to managing proprietor £500 per annum; price all at £1,100, or alternatively the value of stock and fixtures only; no sum asked for goodwill.

18.—**ERITH (NEAR)**.—Middle and Working-class Business; net profit last year £374; comfortable living accommodation; stock worth nearly £300; very low rental; price all at £500 or valuation terms entertained.

19.—**KENT COAST**.—Cash Business for sale with Dispensing and Photographic; takings last year £1,000; net profit £225; house over, bath, etc.; rent £70 per annum; price all at £550; Vendor is desirous of selling quickly in order to take up an appointment.

20.—**HERTFORDSHIRE**.—Business and Property for sale; good-class clientele; takings this year about £1,550; net profit about £400; six-roomed modern flat over; central heating; stock worth £500; price to include freehold which is worth about £1,750 (a substantial mortgage could be arranged) £2,500.

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Special Terms for Income Tax Valuations and Preparation of Accounts by Qualified Accountants.

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15 Bridge Street, Walsall Telephone: Walsall 3774

Lancashire and District Representative: Mr. E. BROWN, 21 Davenport Road, Hazel Grove, Stockport. Telephone: Great Moor 2405

Correspondence, mutually confidential, is invited from prospective purchasers of the following businesses at present available for purchase.

(C1) **SUSSEX (MARKET TOWN).**—Attractive modern Pharmacy, with good living accommodation; increasing turnover, now at the rate of approximately £2,500 per annum; net profit about £600; optical connection, the returns from which average about £6 weekly; premises very well situated and excellently fitted; price £1,650, or very near offer.

(C2) **CRICKLEWOOD (NEAR).**—Progressive middle-class business, situated in growing area; increasing turnover, now at the rate of approximately £2,500 per annum; modern flat above with garage; new 21-year lease will be granted; present net profit to owner-proprietor approximately £500 per annum; genuine reason for selling; for a quick sale will accept £450 for lease and goodwill; stock and fixtures at valuation (total approximately £1,350); exceptional opportunity.

(C3) **CHANNEL ISLANDS.**—Old-established Pharmacy offering particularly good scope and opportunities for further development; present returns upwards of £3,000 per annum; the business carries a heavy stock (about £2,000), which, however, is all good and saleable, and could, probably, be reduced; capital requirements approximately £3,000, part of which might remain under approved circumstances; please supply bankers' references.

(C4) **CHESHIRE.**—Unopposed country business occupying excellent position; turnover for 1935-36 financial year, £1,550 approximately, and steadily increasing; good living accommodation, with all conveniences; rent £52; price £920, including stock approximately £650.

(C5) **MIDDLESEX (NEAR TO NORTH LONDON).**—Good-class family business with up-to-date flat above, occupying main-road position, and situated in growing district; present returns approximately £1,300 per annum, but these figures can be increased materially; no near opposition; price approximately £850, including stock and fixtures £700.

(C6) **HENDON.**—Modern Pharmacy with sub-post office, occupying main road position and situated in good-class area; excellent future prospects as considerable building, etc., is at present in progress; no near opposition; up-to-date flat with all conveniences; price £450, or reasonable offer.

(C7) **WEST RIDING OF YORKSHIRE.**—Established City business; turnover for last financial year, £1,946; gross profit, £849; rent £175; good scope for further development; reasonable purchase price as proprietor is taking over a position outside pharmacy, and wishes, in consequence, to sell as quickly as possible.

(C8) **COLCHESTER (NEAR).**—Drug store occupying prominent position in main shopping thoroughfare; fitted in old country style;

Valuations for transfer, probate, income tax, etc., promptly executed at economical rates. Agency for locums, managers, etc.

THE ASSOCIATION OF MANUFACTURING CHEMISTS, LIMITED

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VALUATIONS, SALES OF BUSINESSES. STOCKTAKINGS.

Enquiries Invited.

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6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BRISTOL.—Old-established Cash Business for Sale, good-class district; no opposition; at present doing £35-£40 weekly, plus N.H.I.; rent for large shop and large flat, in excellent condition, only £76 inclusive (on lease); owners must sell for family reasons; banker's reference in first letter, please; price about £1,250, or valuation terms. Replies to 165/3, Office of this Paper.

CROYDON (Main Road).—Small sound Business for disposal; family reasons; long lease; small outgoings; good living accommodation, part could be let off; garden and garage; Ucal and Kodak Agencies; easily worked; nicely fitted and well stocked; splendid opportunity for Optics; moderate price. Full particulars from 165/12, Office of this Paper.

HOME COUNTIES.—For Disposal, Mixed Retail Business; good house attached; private entrance; bathroom; stock and fixtures £360; net profit £250, capable of increase; Post Office attached; salary £500 per annum, payable monthly; price £1,200; young married man with part capital would be considered; bankers' references. 166/10, Office of this Paper.

LANCASHIRE (Bolton, near).—Old-established Business for Sale, reason ill-health; good Photographic; N.H.I. 320 a month; Optical Department adjoining (rooms behind sub-let at 9s. weekly); average turnover last three years £1,824 (including Optics £250); gross profit for 1935 £587; rent and rates £1 19s. 6d. inclusive weekly; price £420 goodwill, plus stock and fixtures at valuation (total approximately £1,350). 167/4, Office of this Paper.

turnover for last financial year, £1,042; rent £50; sub-let £52; good scope for further increase; price £300, part of which might remain.

(C9) **BERKSHIRE.**—Steady family and dispensing business, which is very easily worked; average returns under management approximately £1,100 per annum; good living accommodation with garden and garage; rent £100; lease 14 years; price £550 or near offer; owner retiring.

(C10) **NORTHANTS (IMPORTANT CITY).**—Old-established family and dispensing business, showing steadily increasing returns, now at the rate of approximately £1,500 per annum; good house above with three bedrooms, bathroom, etc.; rent £100; lease 21 years; genuine reason for selling; for a quick transaction approximately £900 will be accepted; early application advised.

(C11) **KINGSTON-ON-THAMES (NEAR).**—Good-class business (lock-up) showing steadily increasing returns, at present at the rate of approximately £1,200 per annum; rent £50; rates approximately £15; no Sunday or half-holiday duty; price approximately £550, to include stock £250.

(C12) **SUSSEX.**—Old-style country Pharmacy established in 1787; has not been fully exploited for some little time past owing to the illness of the ex-proprietor, which terminated in his death, but offers exceptional scope and opportunities to a chemist with the right type of personality, etc.; premises beautifully fitted, mostly in Chippendale, whilst the window is unique; excellent living accommodation; reasonable purchase price (by negotiation); should strongly appeal to a chemist with limited capital desirous of acquiring a good-class business of this particular type.

(C13) **LEICESTER.**—Old-established lock-up pharmacy, occupying prominent position in busy thoroughfare; present returns upwards of £1,500 per annum, with scope for considerable further increase; reasonable rental and purchase price.

(C14) **CHESHIRE.**—Attractive and well-fitted lock-up Pharmacy, offering scope for considerable further increase, situated in town with population of approximately 18,000; turnover for 1935-36, £1,600; rent £60; stock and fixtures estimated at £850; price all at £1,000.

(C15) **BRISTOL SUBURB.**—Old-established high-class dispensing business, with scope for considerable development under personal proprietorship; turnover upwards of £2,000 per annum; premises well situated; price approximately £1,300 all-at.

(C16) **NORWOOD.**—Business with sub-post office, at present under qualified proprietorship, but could be converted into a drug store without difficulty; average returns £900-£1,000 per annum, plus post office salary (£132); living accommodation with all conveniences; rent £46; excellent for quick sale.

LONDON (on busy main road).—Old-fashioned, well-fitted Chemist's Shop; splendid living accommodation; increasing business; clean, healthy stock; lease granted, reasonable terms; sound reasons for disposal; no agents; £400. 166/16, Office of this Paper.

MANCHESTER SUBURB.—Old-established Drug Store, nicely fitted, good, clean stock, in working-class district, for Sale, owing to ill-health; suit young Qualified; two bedrooms, bathroom; electric light and gas; reasonable rental. Clapham, 240 Lightbowne Road, Moston, Manchester, 10.

NEAR Southport.—Good-class Business in shopping district; lock-up corner shop (small); overheads approximately 35s. per week, including rent, rates, etc.; returns average £15 per week; price £350, including stock £250, fittings and fixtures; established three years; suit recently Qualified young man; good reasons for disposal. 167/6, Office of this Paper.

NEAR SPITALFIELDS MARKET.—Old-established Drug Stores; takings average £70 per week; price £300; stock at valuation. For full particulars apply John G. Juden, Ltd., 6A North End Road, Golders Green, N.W.11. Telephone: SPEdwell 4431.

TUMPERLEY, ALTRINCHAM.—For Sale, Chemist's Business, old established, as a going concern, with stock and fixtures. 291/559, Office of this Paper.

OPPORTUNITY for progressive young Chemist; neglected business, doing £1,100 a year; in growing Eltham, S.E.9, district; price £700, including stock (£350) and excellent fixtures; good reasons for disposal. 165/3, Office of this Paper.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

WANTED, within the next few weeks, a sound, steady Business in the South of England, South-West or Midlands (small country market town preferred), returning about £2,000, with comfortable house attached; would entertain purchase of property; banker's reference available, and advertiser is free to take over immediately. Reply, in confidence, to "Genuine," 291/557, Office of this Paper.



*Don't leave it
to chance!*

SELL your business profitably, without worry. We have buyers waiting ready to pay cash down for chemists' businesses in any part of the country. We can find you a ready purchaser and save you all trouble and anxiety. Remember, we have a specialised knowledge of the chemists' business and a long established reputation to maintain. You are safe when you place your business in our hands.

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PREMISES WANTED.

ADVERTISER wishes privately to purchase shop property in first-class positions showing reasonable return; leases will be granted to owner-occupiers who wish to sell and remain as tenants. Write Dodds, High Meadows, Gerrards Cross.

PREMISES FOR SALE.

LANCING.—Double-fronted Shop, suitable for Chemists; fine opening in developing district; large shop, parlour and kitchen, 3 bedrooms, bathroom; mortgage if required; £1,050 freehold. Orchard Estates, Lancing.

PREMISES TO LET.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

HORNCURCH DISTRICT.—Main-road corner position, lock-up Shop, eminently suited for Chemist; very close proximity two large practices, Doctors in residence; rent £250 exclusive, rates assess £17 at 12s. 4d.; modern flat available if required; excellent opportunity to establish quickly a going concern. 165/4, Office of this Paper.

GROWING DISTRICTS—GLOWING PROSPECTS.—An excellent position is available for Chemist and Druggist's Business at each of the following estates: Orpington, Hayes and Eltham, S.E.9, in important self-contained shopping centres; each shop complete with spacious self-contained modern flat over; to let or for sale; reasonable trade restrictions; shop front included. Write at once to 291/550, Office of this Paper.

HIGH-CLASS Shop to Let in new parade, best part of Streatham; £140 per annum. Apply, Letting Manager, 15 Leigham Hall Parade. 'Phone: Streatham 9627; or to Bell Investment Trust, Ltd., 115 Park Street, Mayfair, W.1. 'Phone: Mayfair 2779.

OPPORTUNITY OCCURS to establish a Business in a well-developed and rapidly growing district near Hounslow; only three shops now left on a Parade which occupies a commanding main-road corner position; a Chemist is urgently needed by the district and should be instantly successful; the accommodation comprises large sales shop and a self-contained flat above of four good rooms, kitchen, bathroom, etc.; the rent is £125 per annum exclusive on lease. Apply to John Allsop, Sole Agent, 433 Great West Road, Hounslow. Tel.: Hounslow 2620.

TO Chemists and Druggists.—To Let, double-fronted Shop, with two back rooms, situated at No. 9 Boro Road, North Shields, busy thoroughfare, where a successful Chemist's business has been carried on for the past 25 years under one tenancy; no fittings; rent £56 per annum, rates £30 per annum. For particulars apply John R. Mather, 15 Ayres Terrace, North Shields.

AGENCIES.

**WE SEEK
TRAVELLERS'
SUNDRIESMEN
AGENTS**

who would carry very remunerative additional lines British Surgical Rubber Goods. Write stating territory

**INTERNATIONAL LATEX PRODUCTS LTD.
54 Old Broad Street, London, E.C.2.**

FRANCE.—Chemist in Paris seeks important English firm specialising in Pharmaceutical Products as General Agent for France. Write: Laboratoire Guinzbourg, 48-50 Av. de la Porte d'Ivry, Paris, 13.

BUSINESS, with a large selling organisation handling fast-moving winter line, desires to consider a summer product. 291/552, Office of this Paper.

INDIA.—A well-connected firm of Wholesale and Import Merchants in Bombay desire to get in touch with British Manufacturers of Fine Chemicals, Drugs, Galenicals and Chemists' Sundries (proprietor at present in England); the firm have close connexions with buyers all over India and would like to take up the representation of good-class firms on a commission basis. Address in the first instance: 291/545, Office of this Paper.

SALE BY AUCTION.

5 LITTLE BRITAIN (close to G.P.O.), CITY.

B. NORMAN & SON

will sell by Auction, Wednesday Next, at 12 noon, SHOP FITTINGS, Drug Runs, Showcases, Counters, Office Furniture, Safes, Typewriters, National Cash Registers.

Catalogues on application. Tel.: NAT. 6463.

SITUATIONS OPEN.**RETAIL (HOME).**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BIRMINGHAM.—Young Lady Assistant required; reliable Dispenser and good Window-dresser; permanency. Apply, with full particulars, to Managing Director, Hedges (Chemists), Ltd., Dale End, Birmingham.

BUXTON.—Unqualified man or woman Assistant (aged 22-30 years) for high-class Pharmacy; must be an accurate Dispenser and good Counter hand; give details of experience, height and age, when free and salary required. Abbott, Chemist, Buxton.

CARDIFF.—Wanted, December 7 or 14, capable Qualified Assistant; good Counterman and Window-dresser; able to be left in sole charge; send full particulars, with photo, first letter. Robinson, 134 Whitechurch Road, Cardiff.

LONDON (Kensington district).—Unqualified Gentleman required for busy Pharmacy; must have had first-class experience, Dispensing and Counter, in best-type London business; good salary and comfortable berth for an energetic man under 40. State age, recent experience, when disengaged and salary required to 166/11, Office of this Paper. No stamped envelopes or returnable matter, please.

LONDON, N.4.—Qualified Assistant required from December 14 to December 24 inclusive, chiefly for Dispensing and assist at Counter; please state age, references and salary required; applications not answered in 7 days respectfully declined. Apply Pirie, Chemist, 4 Grand Parade, Harringay.

LONDON, W.1.—Qualified Assistant, male, for high-class business in the West End; previous experience in a similar capacity an advantage. Full particulars, age, height, experience, and salary expected, 291/551, Office of this Paper.

LONDON, W.4.—Young Unqualified Assistant; permanency; good-class business; comfortable berth; interview preferred. 166/24, Office of this Paper.

YORKSHIRE.—West Riding.—Qualified; capable of taking charge; must be capable Window-dresser, used to N.H.I. Dispensing and quick Counter trade; fullest particulars first letter. 165/10, Office of this Paper.

A.A.A.A.—SMART Qualified Assistant (male) wanted early December; must be able to take charge if necessary; good Window-dresser, quick Counterman, and used to N.H.I. Dispensing; good prospect for the right man. 166/45, Office of this Paper.

ASSISTANT (female), with Pharmaceutical training, required for Drug and Optical Department; preferably with some knowledge of Surgical Fitting; permanent position; must be adaptable and capable of undertaking responsible duties. Apply, stating age, experience, salary, and enclosing photograph, to Secretary, Co-operative Society, Ltd., Albion Street, Derby.

JUNIOR Assistant (about 25) required; good knowledge of Counter, Window-dressing and Dispensing for good-class Private Pharmacy, Gloucestershire; please write particulars of experience, salary required, when at liberty; vacancy occurs very soon. 167/13, Office of this Paper.

JUNIOR Assistant required, either sex, for good middle-class Pharmacy; Dispensing, Toilet and Window-dressing experience. Bruce, Chemist, Westcliff-on-Sea.

JUNIOR Assistant or Improver required. Apply, in writing, stating full particulars, wages required, etc., to Green, 62A Plumstead Common Road, Plumstead, S.E.18.

JUNIOR Assistant, Unqualified; tall, good appearance; intelligent Salesman; apply in writing, stating when free to commence, age, experience and salary required; enclose photograph. Galloways, Victoria Square, Birmingham.

LADY Qualified Assistant required very shortly for East Coast Pharmacy; permanent and comfortable post for suitable applicant. Reply, with full particulars of experience, age, height and salary required, photo if possible, Williams & Baxter, Ltd., St. Peter's Road, Great Yarmouth.

MANAGER for West London required. Particulars and reference to 291/547, Office of this Paper.

PHARMACY—Female Assistant required; must have had general Pharmaceutical and Shop experience; widows and single persons only considered. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Limited, 113 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Note.—Canvassing of members of the General Committee or officials will disqualify.

QUALIFIED Assistant wanted, immediately after Christmas, country Pharmacy, Bristol district; used to N.H.I. Dispensing. Please give full particulars, age, experience, salary required, etc., to 167/1, Office of this Paper.

QUALIFIED Junior wanted immediately. Apply J. H. Skitt, Chemist, Ramsgate.

QUALIFIED male or female Assistant; Dispensing and Counter; please state usual particulars and salary, if disengaged. Apply Herbert's Drug Stores, Ltd., 24 Tachbrook Street, S.W.1.

UNQUALIFIED Assistant (30-40) for Dispensing Counter; high-class Dispensing experience essential. Full particulars to 291/556, Office of this Paper.

UNQUALIFIED (21-25); smart Junior; one used to brisk business and willing to work. Full particulars and salary required to commence, P.C.B. 224/2, Office of this Paper.

WANTED—A Qualified Chemist for London, N.W.; smart appearance, capable Window-dresser and good at Counter Sales. Write, stating age, salary, experience, when free to commence duties, to "K.," 77 High Street, London, N.W.1.

WANTED—Part-time Dispenser, hours 5.30 to 8.30 approx. State experience, full particulars and salary required to Doctor, 87 Thurlleigh Road, S.W.12.

WANTED—Qualified Lady or Gentleman, elderly would suit; comfortable berth; permanent; please state salary, etc., moderate. 165/6, Office of this Paper.

YOUNG Assistant wanted; must have had experience in good-class business, Dispensing, Photography and Window-dressing; state age, experience and when disengaged, and enclose copies of testimonials. P. Jeyes & Co., Ltd., Chemists, The Drapery, Northampton.

YOUNG Junior Assistant required, lady, one just finished apprenticeship suitable, for good-class business at Amersham; state experience and salary required. J. M. Hughes, High Street, High Wycombe.

YOUNG Lady Assistant, recently Qualified; state age, height, experience and salary required. 165/17, Office of this Paper.

WHOLESALE.

ADVERTISING TO THE MEDICAL PROFESSION

London distributors of medical products, well known to the profession, require executive to organise propaganda and selling. Applicants should send particulars of their education, experience and attainments to 291/555 Office of this Paper.

CHEMIST, male, wanted to take charge of Wet and Dry Counters of Wholesale Drug House (Provincial). Applicants please give full particulars of experience in first letter to 291/548, Office of this Paper.

ENERGETIC Representatives required by Manufacturing Chemists to carry attractive range along with present lines; liberal commission and allowance towards expenses; territories open: (1) Scotland, (2) Birmingham area, (3) South Coast, (4) West of England. Full particulars to 291/558, Office of this Paper.

ESSENTIAL Oil Merchants require competent Young Man for their Warehouse; must be able to weigh oils exactly and had previous experience. Write, stating age, experience, salary required and full particulars to 291/549, Office of this Paper.

EXCELLENT Commission Agency offered man with sound connexion among Chemists only, Greater London, South Coast, Manchester. Full particulars 166/32, Office of this Paper.

EXCELLENT Side-line—Camera Manufacturers require Live Representatives in London, South-East and East Coast, Birmingham and district, and West of England, with connexions among Photographic Dealers and Chemists, to carry exceptionally good line at popular price; applicants must give fullest particulars. 291/544, Office of this Paper.

OLD-ESTABLISHED Manufacturing Chemists in London open to engage experienced and energetic Sales Manager; must be thoroughly competent and capable of developing business; good prospects for suitable man. Write in first instance, with full particulars, to Box 423, c/o Messrs. Wills, Ltd., 300 High Holborn, London, W.C.1.

PILL Maker, Unqualified, male, wanted, experienced (age about 25 years), for West End Store. Write, stating wage required, to Box 872, Sells Advertising, 14 Lancaster Place, Strand, W.C.2.

REPRESENTATIVE (car owner) required for well-known London firm for Home Counties and South Coast; salary, expenses and commission; previous experience and established connexion with Chemists essential. Send full particulars and photo (which will be returned) to 166/2, Office of this Paper.

REPRESENTATIVES, independent, calling on Hospitals, Medical Schools and Biology Departments of Schools, etc., required for small additional specialised line; reasonable commission paid, but no expenses. Write only to Vector Manufacturing Co., Ltd., 118 Fulham Road, London, S.W.3.

REQUIRED for January 1, First-class Travellers for Scotland, Northern Counties, South Coast and London; preferably young and possessed of real selling ability for Proprietaries and anxious to progress; if Qualified an advantage. Give fullest particulars age, salary, experience, etc., to "B. I. P.," P.C.B. 223/32, Office of this Paper.

REQUIRED immediately, Representatives calling on Retail Chemists and Stores to carry additional lines (Lavender Water, Cologne, etc.) for Christmas trade, also Perfumery and Toilet Articles throughout year, on 10 per cent. commission basis. Apply Rosmarine Manufacturing Co., 206 Tower Bridge Road, S.E.1.

REQUIRED immediately, three Representatives of proved Sales ability for North Wales, Cornwall, Devon and Dorset, Cumberland, Durham, Northumberland and Westmorland; guaranteed commission basis; must have long-standing connexion among Chemists and Druggists for selling renowned universally advertised products in constant demand; no objection to those carrying non-competitive lines; car owners preferred. Write, stating full particulars of past experience and territory covered, 291/546, Office of this Paper.

SHORTHAND Typist required for Manufacturing Chemists, S.E. London; salary £2 per week to competent applicant. Write, stating full particulars of experience, etc., to 291/553, Office of this Paper.

SURGICAL DRESSINGS AND DRUGGISTS' SUNDRIES.—Representative required for Liverpool and district; applicants must reside in or near Liverpool and must have connexion among Chemists; salary, commission and expenses. Applications must state age and experience in strictest confidence to 165/16, Office of this Paper.

TABLET Maker wanted for London firm. Experience and wages required to 291/554, Office of this Paper.

YOUNG Man required, Qualified or Unqualified, to assist in Testing Laboratory. Write, giving age, experience, salary required, etc., to Evan Williams Co., Ltd., Aintree Road, Perivale, Greenford, Middlesex.

COLONIAL, INDIAN AND FOREIGN.

MALAY STATES.—Junior Assistant (about 25), Qualified, required, with Optical qualification and experience; single; second-class passage out and home; excellent prospects for right man. Apply by letter only to Dakin Brothers Limited, 82 Middlesex Street, London, E.1, with copies of references.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.—QUALIFIED seeks position as Manager; married; capable; good Salesman, excellent Counter, Prescriber; highly satisfactory references; present position 7 years; disengaged 2 weeks; London suburbs or South Coast. 166/15, Office of this Paper.

A.A.—QUALIFIED (24); Manager or Assistant; all-round experience, including Managerial, London, Provinces, sea-side; excellent references; recommended present employer; free November 28. Bolton, 48 Haywards Road, Haywards Heath.

A.A.—UNQUALIFIED (29); experienced Dispenser, Counter; modern methods; Horsham, Brighton, Croydon district; reliable; now or January 1. 166/8, Office of this Paper.

A PHARMACIST; 16 years' excellent experience; London, provinces; keen business builder; Window specialist. 29 Limes Avenue, Waddon, Surrey.

A QUALIFIED Manager, excellent experience (31), married, requires permanency where business acumen and ability required; excellent Window-dresser; London district. "Chemist," 121 Northfield Avenue, W.13. Phone: Ealing 2608.

A S Relief Pharmacist; experienced Retail and Hospital; now disengaged; Welsh-speaking. Thomas, 232 Molyneux Road, Liverpool, 6.

A SSISTANT; competent Dispenser, Salesman; single; active; long experience; moderate salary; Unqualified; disengaged. Berry, 4 Myrtle Grove, Limes Avenue, Morecambe.

A SSISTANT; competent Dispenser, Salesman; 30 years' experience; single, active, Unqualified; good references. "Statim," 98 Lockwood Road, Lockwood, Huddersfield.

A SSISTANT, good all-round; Dispensing, Counter, etc.; 16 years last reference; Unqualified; London area. Stevens, 46 Maybury Gardens, Willesden Green, N.W.10.

A SSISTANT, Unqualified; experienced Dispensing, Counter; part-time, locum, permanency; London only; disengaged. Write "C. G.," 2A Yalding Road, Bermondsey, S.E.16.

A SSISTANT (27), Unqualified; all-round experience Dispensing, Counter, Window-dressing; London preferred. "Advertiser," 44 Turneville Road, W.14.

A SSISTANT (27), Unqualified; Counter, Dispensing, Photographic, Window-dressing; varied experience (10 years); excellent references. D. McCarthy, 167 Princes Avenue, Kingsbury, N.W.9.

C HEMIST, experienced, excellent Prescriber, disengaged, desires management; locum; London or Provinces; reasonable salary. "Chemist," 46 Buckley Road, Brondesbury, N.W.6.

C HEMIST (26), Qualified, tall, experienced in all branches, seeks position of trust; London. 165/1, Office of this Paper.

C ONSCIENTIOUS young Pharmacist desires position; London or area; proficient in all branches; Windows, Photographic, Dispensing, Surgical; good references. 166/21, Office of this Paper.

C ZECH Chemist (21 years) seeks *au pair* position or exchange in England; opportunity to continue studies; speaks English and German. Walter Masanek, Droguerie, Trautenau, Czechoslovakia.

E VENINGS AND/OR WEEK-ENDS.—Young M.P.S.; London ex-proprietor; capable, conscientious and efficient. 165/9, Office of this Paper.

E XPERIENCED Assistant (45), tall, Unregistered; courteous and tactful Salesman; quick and careful Dispenser; Photo, Windows, Agricultural, etc.; well recommended; disengaged. Haigh, 34 Bulwer Street, Shepherd's Bush, W.12.

E XPERIENCED M.P.S. (30), studying, has December 14 to December 24 inclusive free; references. "Chemist," 81 Walm Lane, N.W.2.

E XPERIENCED Pharmacist desires re-engagement as Manager or locum; West preferred; recommended. M.P.S., 6 Westleigh Park, Bristol, 4.

E XPERIENCED Qualified Locum, England and Scotland; single; abstainer; terms moderate for winter engagement. James Lees, Beechwood, New Cumnock, Ayrshire.

J UNIOR (female); high-class Dispensing and Counter experience; Manchester district; disengaged. M. B., 242 Great Clowes Street, Broughton, Manchester.

L ADY Assistant (not young) seeks post; general experience; capable, willing; salary £2 2s. "A.," c/o 27 Rosebank Road, Hanwell, W.7.

L ADY Dispenser (middle-aged) requires post (Hall), Doctor, Chemist or Factory (North); Counter experience, etc., 11A Brentwood Avenue, Cleveleys.

L ADY (22), M.P.S., well trained good-class Dispensing, Counter, Toilets, Photographic, Stock, Book-keeping, desires permanency or locum; excellent references; available immediately. 167/7, Office of this Paper.

L ADY, Qualified, requires 4 days a week work or locum; thorough general experience. "Pharmacist," 220 Portsdown Road, W.9.

L ADY requires situation with Chemist; good experience. M. Williams, 37 Burgoyne Road, Harringay, N.4.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensue. Strict attention to this detail will be appreciated.

LOCUM or relief; any period; town or country; highest references; reasonable terms; disengaged. "Chemicus," 56 Rudloe Road, Balham, S.W.12.

M.P.S., MIDDLE-AGED; just finished locum work; accept very moderate salary for winter months. 50 Garden Lane, Liverpool, 9.

M.P.S., MIDDLE-AGED, single, abstainer, good all-round experience, desires full- or part-time work; moderate salary. P.C.B. 223/37. Office of this Paper.

M.P.S. SEEKS re-engagement; capable, reliable, energetic; well recommended; temporary or permanent; experienced manager. Lounds, 44 Clovelly Road, Ealing, W.5.

M.P.S. (43) seeks position as Manager; locum or permanency; London or South Coast preferred; comprehensive Retail experience; available immediately; moderate salary. "Smith," Warndene House, Carden Avenue, Brighton, 6.

NURSE-DISPENSER (Hall), requires post; good experience; part or whole time. Nurse, 12 Vambury Road, S.E.18.

PHARMACIST desires position as Manager, Superintendent or part time in London; elderly, active, reliable, abstainer; strictly moderate salary. Apply 166/19, Office of this Paper.

QUALIFIED Assistant (23); good Counterhand, Dispenser and Window Displayer; North or Midlands preferred; satisfactory references; disengaged. 165/15, Office of this Paper.

QUALIFIED Chemist, Optician; splendid references; locum or permanency; available immediately; terms moderate. Chemist, 6 Duke Street, Buxton.

QUALIFIED, married, good Buyer and Stock-keeper, 20 years' managing experience (present position 8 years), desires change about end of December; London preferred; please state salary. 166/48, Office of this Paper.

QUALIFIED (24) desires post as Manager or Assistant; experienced all branches; excellent references; free now. 166/7, Office of this Paper.

RECOMMENDED.—Thompson, of Crouch End, recommends Qualified Assistant as Manager (32); married; London preferred. Telephone MOUNTVIEW 4161 or write T.J./HBT, 39 Park Road, N.8.

REGISTERED Pharmacist (31) desires part-time engagement, Saturday, 3 p.m. onwards, Sunday any time; North London preferred. 166/6, Office of this Paper.

THIRTY-SIX.—Experienced Manager, used to Control, quick Counter and heavy Panel; married; London district preferred. Chemist, 438 Garratt Lane, S.W.18.

UNQUALIFIED Assistant, West End and City, good Counter, Dispensing and all-round experience, desires situation. 166/37, Office of this Paper.

UNQUALIFIED Lady with 20 years' experience in all branches of a Chemist's Business; capable Window-dresser, Dispenser and Saleswoman; tall; disengaged. Miss H. Endacott, "Gilwern," 78 Penwortham Road, Streatham, S.W. 'Phone: Streatham 2741.

UNQUALIFIED (28) seeks post; all-round experience (8 years); part time or otherwise; S.E. district required. 46 Palace Road, Bromley, Kent.

WINDOW-DRESSING, etc., for Xmas, spare time; radius 5 miles Acton Town; good work; everything priced; references, terms moderate. 166/49, Office of this Paper.

WHOLESALE.

A REPRESENTATIVE; valuable Chemists' and Doctors' connexion in South Wales and Western Counties; salesmanship and propaganda on neglected ground a speciality; good appearance and address; own car. "Successful," P.C.B. 223/39, Office of this Paper.

CHEMIST (aged 30), holding position in laboratory for the manufacture of pharmaceutical preparations, seeks similar appointment. "C," 28 Willoughby Road, Acton Vale, W.3.

CHEMIST, experienced in the Manufacture of Pharmaceutical Preparations and Specialities, seeks similar post; 5 years with leading London house. "M.P.S.," 163 Burntwood Lane, S.W.17.

EXPERIENCED Representative, pharmaceutically trained, desires Representation with House of Repute; big London connexion; well known in London and Irish pharmaceutical circles; highest references; well recommended; sales record proved. "Push Trade," 166/1, Office of this Paper.

FOREWOMAN seeks position in factory; used to controlling female labour. P. G., 166/30, Office of this Paper.

GENTLEMAN, Unqualified (age 38), just sold own Drug business, desires position with firm as Outside Sales Representative; good general knowledge of Drugs, Toilet and Sundries; 15 years' sound Retail experience; highest references; can drive car. 166/33, Office of this Paper.

MAN (27), Unqualified, seeks change with prospects; 12 years' sound Retail and Wholesale experience; Drug Pricing, etc. 166/26, Office of this Paper.

M.P.S., YOUNG, ex-proprietor, 12 years' Retail experience, desires to represent Wholesale firm; own car; salary and commission. 165/90, Office of this Paper.

PROFESSIONAL AND/OR TRADE PROPAGANDA, SALES.—Responsible, healthy Representative; long and profitable experience; own car; in excellent standing with all past employers and clientele; Doctors, Chemists, Licensed, Wholesale/Retail Traders; every investigation courted. "Stability," General Gordon Hotel, Weymouth.

REPRESENTATIVE; many years' experience; Sundries; about 1,100 customers; own car; good sideline wanted; commission and part expenses or would represent good house Lancashire and Cheshire area. 167/9, Office of this Paper.

YOUNG Registered Pharmacist (22) desires post, indoor staff of firm of Manufacturing Chemists, or staff of Hospital or other Dispensary; reliable references; disengaged. 83 Thingwall Park, Fishponds, Bristol.

FOR SALE.

6s. for 50 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

(Articles to the value of £5-£50.)

NATIONAL Cash Register; prints sales and adds total; perfect, but no longer needed; reasonable. Write P. Wood, 72 Smithies Road, S.E.2.

MISCELLANEOUS.

10s. for 60 words or less ; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

CHEMISTS' FITTINGS in Oak or Mahogany; keenest prices; Drug Fittings, Wall Cases, Dispensing Screens, Serving Counters, all-glass Counters, Silent Salesman, Counter Drawers, Window Enclosures and Glass Shelves; send for rough sketches. GEORGE COOK, The Working Shopfitter, 27 Macclesfield Street, City Road, E.C.1. 'Phone: Clerk 5371.

CHEMISTS' FITTINGS.—New and Second-hand Drug Runs, Dispensing Screens, Glass-fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesman, Upright and Flat Counter Cases, Plate-glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., at competitive prices. F. MAUND & E. BERG (SHOWCASES), LTD., Shopfitters and Shop Front Builders, 175/9, Old Street, London, E.C.1.

CHEMISTS' Shop Fronts and Fittings, direct from actual manufacturer; keenest prices; Drug Runs, Wall Cases, Counters, Dispensing Screens, etc.; send requirements or representative will call and estimate at once; expert advice and sketches free; deferred terms arranged if desired. L. MYERS, 133/5 Old Street, London, E.C.1. Telephone: Clerk. 0281.

FOR QUICK SALE.—U-shaped Steam Heated Drying Machine, with Mixing Agitator, also similar for Gas Heating. 290/532, Office of this Paper.

P.A.T.A. COUNCIL ELECTION

RETAIL SECTION.

The undersigned candidates invite support for the following reasons:—

1. *We consider that the interests of retailers can best be served by bona-fide retailers.*
2. *We should press for increased activity against supporters of price-cutting, whether manufacturers, wholesalers or retailers.*
3. *As the retail section is financed by retail chemists we should endeavour to obtain an adequate return for our subscriptions.*
4. *We are retail chemists in business, we are neither manufacturers nor wholesalers, and our interests are solely in retail pharmacy.*

SIGNED

**C. J. YEATES (Plymouth Branch)
DEVONPORT**

**C. B. GOSLING (Wembley Branch)
GREENFORD, MIDDX.**

FOR SALE.—Edge Runner Mill with cast-iron pan and two runners, 30 in. by 8 in. wide, also 3 ft. and 3 ft. 6 in. Portable Stone Mills, with stones complete. 290/535 Office of this Paper.

FOR SALE.—Large capacity Steam Heated Dryer with Internal Agitator, also Jacketed Cylindrical Mixer and Dryer 8 ft. long, 3 ft. diameter. 290/533, Office of this Paper.

FOR SALE.—Tumbling Barrel Type Mixer, mounted over Sifting Machine with Receiving Box, all mounted in wood frame. 290/530, Office of this Paper.

FOR SALE.—Two "Griveau" Mixers, wood bodies, with sifters fitted under, and receiving drawers for sifted powder. 290/531, Office of this Paper.

FOR SALE.—Two Heavy Type Werner Mixers, Water Jacketed, size of Pans, 3 ft. by 2 ft. 9 ins. by 2 ft. 6 ins., also smaller capacity machine. 290/536, Office of this Paper.

FOR SALE.—Vertical Grinding Mill with 12 in. Stones, also similar with 30 in. stones. 290/534, Office of this Paper.

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